



COLEGIO DE SAN JUAN DE LETRAN CALAMBA

A Culture of Conscience, Discipline, and Excellence

ONE ARRIBA SPIRIT
CHAMPIONING CAUSE TOWARDS ACADEMIC EXCELLENCE



PROGRAM CATALOGUE
CY 2018-2019



Colegio de San Juan de Letran Calamba

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Culture of Conscience,
Discipline, and Excellence

PROGRAM CATALOGUE

Collegiate Edition

**CURRICULUM YEAR
2018-2019**

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INSTITUTIONAL PRINCIPLES

A culture of Conscience, Discipline, and Excellence inspired by Filipino, Dominican, Christian ideals and values

VISION

In a Culture of Conscience, Discipline, and Excellence, we envision Letran Calamba as a University, a center of Science and Technology, as well as a vital formation center in the religious and socio-economic development of the region.

MISSION

We, the Colegio de San Juan de Letran Calamba, a Catholic educational institution, commit ourselves to the total human development and better quality of life of our students, faculty and school staff and the promotion of a genuine community through an education that is Filipino, Dominican, and Christian in orientation.

INSTITUTIONAL QUALITY POLICY

To realize the institutional vision and to fulfill the mission of Letran Calamba, the Colegio commits itself to deliver consistently quality education to its students and quality service to its stakeholders through a relevant outcomes-based instruction, sustained research and community extension culture, and continually improved quality management systems.

INSTITUTIONAL QUALITY OBJECTIVES

1. To develop qualified and productive professionals who can effectively contribute to the growth of the nation
2. To maintain and continually strive for a corps of competent administrators, faculty, employees, and alumni who shall endeavor to attain the Colegio's mission and vision
3. To promote solidarity with the larger community through programs that are responsive to its needs
4. To provide a wholesome and conducive educational environment for the Letran community

INSTITUTIONAL CORE VALUES

Based on the Supreme Ideals of Deus, Patria, Letran,
the Colegio embraces the following core values:

DEveloping and **BE**coming a **DOM**inican

Doing What is Right;
Espousing a Sense of Community;
Valuing and Respecting Others;

Being Adaptable and Agile;
Executing a Visionary Leadership;
Promoting **C**ustomer-Driven Excellence;

Delivering Results;
Observing Continual Improvement;
Maintaining a Deep Affection for Life

SCHOOL OF EDUCATION, ARTS, AND SCIENCES

School Logo



Vision

The School of Education, Arts, and Sciences is envisioned to cultivate Christian spirituality, academic creativity, and artistry in a conscientious mind and disciplined body toward achieving excellence among students.

Mission

The School of Education, Arts, and Sciences is committed to be the intellectual heart that pumps academic strength and energy to the different schools and institute of the Colegio by providing general education faculty committed and dedicated to help carry out the educational goals and objectives across all disciplines.

Quality Objectives

1. To promote and implement Dominican programs which are quality focused, industry-aligned, and competency based, preparing students to be globally competitive
2. To continually enhance the support services that will effectively and efficiently contribute to the delivery of programs
3. To maintain qualified and productive academic administrators, and teachers and support personnel

4. To help in nation building by producing professionals with focus in the fields of education, arts, and sciences
5. To cultivate 21st century skills among students to prepare them for a globalized work place.
6. To improve academic performance of students in terms of research, instruction, and extension services
7. To upgrade educational environment including classrooms, laboratories, and other facilities

ACADEMIC PROGRAMS

BACHELOR OF ARTS IN COMMUNICATION

Program Education Objectives

Three to five years after graduation, the Bachelor of Arts in Communication (AB Comm) alumni shall:

1. Manifest high quality of job performance;
2. Apply a well-rounded communication process in the workplace with focus and emphasis on media and communication professions;
3. Assume career works in areas as excellent media and communication practitioners, leaders, advertising managers, multimedia designers, researchers, communications analysts, technical writer, and professionals in jobs related to the field of mass communication;
4. Display a deep level of understanding of the role of communication in social change overtime and across the globe; and
5. Demonstrate expanded and integrated perspective on complex media systems, technologies, communication strategies, and communication theory and history.

Program Outcomes and Performance Indicators

Upon completion of Bachelor of Arts in Communication (AB Comm), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|--|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Convey positive Filipino values in one's decisions and actions • Defend satisfactorily his/her thesis from a panel of experts |

| Program Outcomes | Performance Indicators |
|---|---|
| 3. Work effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals |
| 4. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 5. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 6. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship • Participate actively in the community's spiritual and social advocacy or extension program |
| 7. Apply social science concepts and theories to the analysis of social issues | <ul style="list-style-type: none"> • Get involved in community immersion to investigate a social issue that may contribute to its solution |
| 8. Design and execute social science research using appropriate approaches and methods | <ul style="list-style-type: none"> • Undertake researches regarding a social issue in a community, institution or workplace utilizing social concepts and theories leading to a solution to the issue |
| 9. Practice professional and ethical standards in the fields of social sciences and communication | <ul style="list-style-type: none"> • Adhere to appropriate professionalism and ethical standards regarding respect, honesty, impartiality and willingness to accept each own weakness • Immerse in an actual working environment in industry |
| 10. Define and access information needs; assess and organize information and knowledge; produce, share and utilize information and knowledge | <ul style="list-style-type: none"> • Efficient accessing and gathering of need-based, accurate, authentic, and reliable information through print, broadcast, and online sources, research, and other investigative techniques • Skillful selection, analysis, organization, and presentation of essential information in the development and production of print, broadcast, and online stories • Appropriate and responsible sharing and use of information and knowledge generated from different sources |
| 11. Communicate in different formats and platforms (print, broadcast, and online) | <ul style="list-style-type: none"> • Clear and effective writing for different formats and platforms • Clear, fluent, and engaging delivery of speeches, broadcast news and commentaries, and other oral presentations |

| Program Outcomes | Performance Indicators |
|--|--|
| | <ul style="list-style-type: none"> • Effective and responsible use of non-verbal cues, pictures, graphics, and images in oral and online communication |
| 12. Prepare communication/media plan | <ul style="list-style-type: none"> • Evidence-based situational analysis • Audience-specific communication objectives and strategies • Concrete monitoring and evaluation indicators |
| 13. Conduct communication and media research and evaluation | <ul style="list-style-type: none"> • Prepare a critical and comprehensive literature review and exhaustive research • Employ appropriate research or evaluation framework • Apply research or evaluation design • Present findings and conclusions of the study • Communicate effectively the recommendations |
| 14. Develop and produce communication materials in different formats and platforms | <ul style="list-style-type: none"> • Creative and innovative conceptualization and design of audience-specific communication materials • Skillful and responsible use of relevant technical equipment and software • Skillful use of gender and culture-sensitive and politically-correct language in message development |
| 15. Demonstrate communication management and leadership skills | <ul style="list-style-type: none"> • Efficient and effective use of resources • Sound design of communication programs and projects • Competent use of planning, monitoring, and evaluation (controlling) tools |
| 16. Develop entrepreneurial capabilities | <ul style="list-style-type: none"> • Skillful business analysis and identification of communication-driven business opportunities • Innovative and creative engagement in business ventures • Effective use of marketing communication strategies |
| 17. Adhere to ethical standards and practices | <ul style="list-style-type: none"> • Demonstrate strong foundation in philosophy and ethical system • Clear understanding of professional codes of conducts, standards, and practices • Ethical in making choices and decisions professionally • Maintain stature and behavior that uphold the Professional Code of Ethics • Immerse in an actual working environment in industry |
| 18. Know and practice rights and responsibilities and accountabilities in the communication profession | <ul style="list-style-type: none"> • Clear understanding of freedom, rights, and responsibilities • Observance of communication media laws |

| Program Outcomes | | Performance Indicators |
|------------------|--|--|
| | | <ul style="list-style-type: none"> • Clear understanding of the role of media in a democratic society |
| 19. | Demonstrate a development orientation in communication work | <ul style="list-style-type: none"> • Clear understanding of local, national, and global development issues and agenda • Clear understanding of development theories and paradigms • Deft integration of development issues and concerns in communication projects |
| 20. | Apply communication theories/models, principles, practices and tools in development work | <ul style="list-style-type: none"> • Skillful use of participatory strategies in planning, implementing, and evaluating communication programs • Skillful use of communication strategies in mediation, regulation, and resolution |

BACHELOR OF SCIENCE IN PSYCHOLOGY

Program Education Objectives

Three to five years after graduation, the Bachelor of Science in Psychology alumni shall:

1. Practice the professional and ethical conduct of Psychology in the Filipino and International context;
2. Apply theoretical and professional knowledge, skills, and Christian values in psychological assessment and interventions;
3. Demonstrate a higher level of analytical, critical thinking, and research skills specific to the discipline of Psychology; and
4. Undertake further training for the continuous development of existing skills and acquire higher level of competencies through formal graduate education and employment.

Program Outcomes and Performance Indicators

Upon completion of Bachelor of Science in Psychology, the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | | Performance Indicators |
|------------------|---|--|
| 1. | Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. | Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Convey positive Filipino values in one's decisions and actions • Defend satisfactorily his/her thesis from a panel of experts |
| 3. | Work effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform well as a team leader or member in any kind of group project or activity |

| Program Outcomes | Performance Indicators |
|---|---|
| | <ul style="list-style-type: none"> Perform independently and cooperatively to accomplish worthwhile goals |
| 4. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> Demonstrate responsible Filipino citizenship in local, national or international communities |
| 5. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> Plan and take action for the welfare of the community Continually engage oneself in development projects and activities that address the community needs |
| 6. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> Observe the Dominican values of study, prayer, community, and service Uphold ecological consciousness and engage in environmental stewardship Participate actively in the community's spiritual and social advocacy or extension program |
| 7. Apply social science concepts and theories to the analysis of social issues | <ul style="list-style-type: none"> Get involved in community immersion to investigate a social issue that may contribute to its solution |
| 8. Design and execute social science research using appropriate approaches and methods | <ul style="list-style-type: none"> Undertake researches regarding a social issue in a community, institution or workplace utilizing social concepts and theories leading to a solution to the issue |
| 9. Practice professional and ethical standards in the fields of social sciences and communication | <ul style="list-style-type: none"> Adhere to appropriate professionalism and ethical standards regarding respect, honesty, impartiality and willingness to accept each own weakness. Immerse in an actual working environment in industry |
| 10. Demonstrate the capability to discuss and analyze the major theories and concepts in psychology (knowledge in psychology) | <ul style="list-style-type: none"> Pass licensure examination for Psychometrician Understand and identify major psychological concepts and theories, principles, concepts, and skills in psychology theories Develop arguments about and critically evaluate the established principles in psychology Comprehend and evaluate new information related to psychology (e.g. theory, concepts, data) that may be presented in various forms and from various sources |
| 11. Demonstrate and apply the methods of psychological inquiry in building knowledge on local culture and context (psychological research) | <ul style="list-style-type: none"> Produce good psychological research Demonstrate methods of inquiry in psychology Critically evaluate the appropriateness of different approaches to problem solving in the field Apply inquiry methods in making judgments and solve problems in an applied or an employment context |

| Program Outcomes | Performance Indicators |
|---|---|
| 12. Demonstrate and apply psychological theories and methods in personal and professional setting (application of psychology). | <ul style="list-style-type: none"> • Correctly apply the theories, principles, concepts, and skills in psychology in an employment context • Undertake research using the knowledge and skills in psychology • Communicate results of research to both specialist and non-specialist audiences |
| 13. Demonstrate capability for self-reflection and independent learning in graduate education or in a professional context (independent learning) | <ul style="list-style-type: none"> • Acceptance to graduate programs in Psychology and allied fields • Employability in psychology-related profession • Demonstrate the capability capable of handling basic job requirements in the field of teaching, research, human resource management, basic psychometrics, training and development, among others, and in further developing relevant knowledge in skills |
| 14. Demonstrate professional and ethical behaviors in research and practice in psychology (ethics) | <ul style="list-style-type: none"> • Demonstrate appropriate behavior required in the psychology profession • Observe ethical rules concerning conduct of research and projects • Immerse in an actual working environment in industry |
| 15. Demonstrate harmonious interpersonal relationship with colleagues, clients and others (interpersonal skills) in diverse cultural setting. | <ul style="list-style-type: none"> • Establishes, maintains, and develop working relationships with professional colleagues • Establishes, maintains, and develops appropriate working relationships with clients and others • Displays sensitivity to cross cultural differences |
| 16. Demonstrate the ability to conduct psychological assessments and evaluation (psychological assessment). | <ul style="list-style-type: none"> • Assesses or evaluates individuals, groups, organizations, or situations • Understands assessment or evaluation needs • Selects, designs, or develops appropriate assessments or evaluations • Conduct assessments or evaluations, including administration, scoring, interpretation, feedback, and application of results |

BACHELOR OF SECONDARY EDUCATION MAJOR IN ENGLISH

Program Education Objectives

Three to five years after graduation, the Bachelor of Secondary Education (BSE) major in English alumni shall:

1. Exhibit high motivation and competency in specializing in the content and pedagogy in secondary education;

2. Manifest basic and higher level literacy, communication, numeracy, critical thinking, and learning skills needed for higher learning;
3. Demonstrate and practice the professional and ethical requirements of the teaching profession;
4. Facilitate learning of diverse types of learners in diverse types of learning environment;
5. Create and innovate teaching approaches, take informed risks in trying out these innovative approaches, and evaluate the effectiveness of such approaches in improving student learning;
6. Engage in continuing professional development by pursuing post-graduate studies and building professional links with colleagues to enrich teaching practice;
7. Maintain stature and behavior that upholds the dignity of teaching in addition to being competent and dedicated Filipino Christian teachers; and
8. Assume leadership role in one's career, profession, and community.

Program Outcomes and Performance Indicators

Upon completion of Bachelor of Secondary Education (BSE) major in English, the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. Work effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals |
| 3. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 4. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 5. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship • Participate actively in the community's spiritual and social advocacy or extension program |
| 6. Articulate the rootedness of education in philosophical, socio-cultural, historical, psychological, and political contexts | <ul style="list-style-type: none"> • Discuss in-depth the interplay of various contexts in education |
| 7. Demonstrate mastery of subject matter/discipline | <ul style="list-style-type: none"> • Explain subject matter content clearly, accurately and comprehensively • Relate content with past and future lessons • Provide example from real life to make learning meaningful |

| Program Outcomes | Performance Indicators |
|--|---|
| | <ul style="list-style-type: none"> • Integrate recent developments in education and in the specific field to enrich learning experiences |
| 8. Facilitate learning using a wide range of teaching methodologies and delivery modes appropriate to specific learners and their environments | <ul style="list-style-type: none"> • Utilize appropriate teaching-learning methods and technology for specific subject matter content |
| 9. Develop innovative curricula, instructional plans, teaching approaches, and resources for diverse learners | <ul style="list-style-type: none"> • Design innovative strategies that heighten students' engagement in the classroom • Prepare instructional plans utilizing various approaches, methods, and techniques • Conduct teaching demonstrations to show effective use different approaches, methods, and techniques |
| 10. Apply skills in the development and utilization of ICT to promote quality, relevant, and sustainable educational practices | <ul style="list-style-type: none"> • Utilize appropriate pedagogy and use of technology for the different content areas • Initiate advocacy campaigns towards the attainment of sustainable development goals through technology • Integrate the environmental principles in learning and teaching through ICT • Use context appropriate technology in teaching-learning English vis-à-vis 21st Century learning • Use tools and technology to enhance learning and teaching • Utilize appropriate technologies to achieve learning outcomes |
| 11. Demonstrate a variety of thinking skills in planning, monitoring, assessing, and reporting learning processes and outcomes | <ul style="list-style-type: none"> • Employ effective teaching techniques for diverse types of learners in varied learning conditions • Design and utilize a variety of appropriate assessment techniques to monitor and evaluate learning • Create and utilize learning experiences in the classrooms to develop learners' skills in discovery learning, problem learning, and critical thinking • Produce assessment materials to measure students' performance |
| 12. Practice professional and ethical teaching standards sensitive to the changing local, national, and global realities | <ul style="list-style-type: none"> • Maintain stature and behavior that uphold the Professional Code of Ethics • Immerse in an actual working environment in industry |
| 13. Pursue lifelong learning for personal and professional growth through varied experiential and field-based opportunities | <ul style="list-style-type: none"> • Access information from local and foreign media about educational issues to enhance knowledge • Participate in research to improve the teaching and learning of the different courses |

| Program Outcomes | Performance Indicators |
|--|---|
| | <ul style="list-style-type: none"> • Join seminars/trainings/workshops and related activities to improve the teaching and learning of the different courses • Pursue personal growth and professional development through attendance in seminar-workshops, participation in demo-fests, conducting action research and other education related activities • Participate actively in the school's community outreach activities • Keep abreast with educational issues, trends and practices vis-à-vis local and global context to provide relevant learning experiences. • Conduct relevant research that contributes to current studies in Education • Design community-based activities to help learners achieve an integrated view of social development |
| <p>14. Possess broad knowledge of language and literature for effective learning</p> | <ul style="list-style-type: none"> • Integrate the relationship of language, literature, culture, and society in the teaching-learning process • Conduct an independent investigation of a selected structure of English in the context of language classroom • Critique literary pieces using appropriate literary theories |
| <p>15. Use English as a glocal language in a multilingual context as it applies to the teaching of language and literature</p> | <ul style="list-style-type: none"> • Incorporate features of English as a glocal language in the design of the curriculum, learning activities, and materials • Draft a proposal for and implement a community-based English language- or literature-based learning program |
| <p>16. Acquire extensive reading background in language, literature, and allied fields</p> | <ul style="list-style-type: none"> • Prepare an annotated reading list appropriate for a particular grade level to enhance students' reading skills • Show the ability to enrich the curriculum to include an extensive reading list for learning language, literature, and allied fields |
| <p>17. Demonstrate proficiency in oral and written communication</p> | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Defend satisfactorily his/her thesis from a panel of experts • Utilize a variety of oral communication forms in order to become an effective model to learners • Prepare original compositions in expository and creative writing |

| Program Outcomes | Performance Indicators |
|--|---|
| 18. Shows competence in employing innovative language and literature teaching approaches, methodologies, and strategies | <ul style="list-style-type: none"> • Employ a variety of innovative teaching approaches, methodologies, and strategies • Design learning plans following expectations of the curricula for Grades 7-10 • Perform one independent and one supervised teaching demonstration • Construct appropriate assessment tools for the language and literature classroom |
| 19. Use technology in facilitating language learning and teaching | <ul style="list-style-type: none"> • Design computer-assisted language and literature learning tasks • Prepare one independent and one supervised technology-based lesson |
| 20. Inspire students and colleagues to lead relevant and transformative changes to improve learning and teaching language and literature | <ul style="list-style-type: none"> • Conduct a community language profiling survey to make lesson more localized • Draft a proposal for and implements a community-based English language- or literature-based learning program |
| 21. Display skills and abilities to be a reflective and research-oriented language and literature teacher | <ul style="list-style-type: none"> • Conduct a comprehensive language profiling to identify students' needs • Conduct an analysis of assessment results to improve teaching and learning in the language classroom • Conduct research concerning the teaching and learning of language and literature |

BACHELOR OF SECONDARY EDUCATION MAJOR IN MATHEMATICS

Program Education Objectives

Three to five years after graduation, the Bachelor of Secondary Education (BSE) major in Mathematics alumni shall:

1. Exhibit high motivation and competency in specializing in the content and pedagogy in secondary education;
2. Manifest basic and higher level literacy, communication, numeracy, critical thinking, and learning skills needed for higher learning;
3. Demonstrate and practice the professional and ethical requirements of the teaching profession;
4. Facilitate learning of diverse types of learners in diverse types of learning environment;
5. Create and innovate teaching approaches, take informed risks in trying out these innovative approaches, and evaluate the effectiveness of such approaches in improving student learning;
6. Engage in continuing professional development by pursuing post-graduate studies and building professional links with colleagues to enrich teaching practice;
7. Maintain stature and behavior that upholds the dignity of teaching in addition to being competent and dedicated Filipino Christian teachers; and
8. Assume leadership role in one's career, profession, and community.

Program Outcomes and Performance Indicators

Upon completion of Bachelor of Secondary Education (BSE) major in Mathematics, the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Convey positive Filipino values in one's decisions and actions • Defend satisfactorily his/her thesis from a panel of experts |
| 3. Work effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals |
| 4. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 5. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 6. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship • Participate actively in the community's spiritual and social advocacy or extension program |
| 7. Articulate the rootedness of education in philosophical, socio-cultural, historical, psychological, and political contexts | <ul style="list-style-type: none"> • Discuss in-depth the interplay of various contexts in education |
| 8. Demonstrate mastery of subject matter/discipline | <ul style="list-style-type: none"> • Explain subject matter content clearly, accurately and comprehensively • Relate content with past and future lessons • Provide example from real life to make learning meaningful • Integrate recent developments in education and in the specific field to enrich learning experiences |
| 9. Facilitate learning using a wide range of teaching methodologies and delivery modes appropriate to specific learners and their environments | <ul style="list-style-type: none"> • Utilize appropriate teaching-learning methods and technology for specific subject matter content |

| Program Outcomes | Performance Indicators |
|--|---|
| 10. Develop innovative curricula, instructional plans, teaching approaches, and resources for diverse learners | <ul style="list-style-type: none"> • Design innovative strategies that heighten students' engagement in the classroom • Prepare instructional plans utilizing various approaches, methods, and techniques • Conduct teaching demonstrations to show effective use different approaches, methods, and techniques |
| 11. Apply skills in the development and utilization of ICT to promote quality, relevant, and sustainable educational practices | <ul style="list-style-type: none"> • Utilize appropriate pedagogy and use of technology for the different content areas • Initiate advocacy campaigns towards the attainment of sustainable development goals through technology • Integrate the environmental principles in learning and teaching through ICT • Use context appropriate technology in teaching-learning English vis-à-vis 21st Century learning • Use tools and technology to enhance learning and teaching • Utilize appropriate technologies to achieve learning outcomes |
| 12. Demonstrate a variety of thinking skills in planning, monitoring, assessing, and reporting learning processes and outcomes | <ul style="list-style-type: none"> • Employ effective teaching techniques for diverse types of learners in varied learning conditions • Design and utilize a variety of appropriate assessment techniques to monitor and evaluate learning • Create and utilize learning experiences in the classrooms to develop learners' skills in discovery learning, problem learning, and critical thinking • Produce assessment materials to measure students' performance |
| 13. Practice professional and ethical teaching standards sensitive to the changing local, national, and global realities | <ul style="list-style-type: none"> • Maintain stature and behavior that uphold the Professional Code of Ethics • Immerse in an actual working environment in industry |
| 14. Pursue lifelong learning for personal and professional growth through varied experiential and field-based opportunities | <ul style="list-style-type: none"> • Access information from local and foreign media about educational issues to enhance knowledge • Participate in research to improve the teaching and learning of the different courses • Join seminars/trainings/workshops and related activities to improve the teaching and learning of the different courses • Pursue personal growth and professional development through attendance in seminar-workshops, participation in demo-fests, conducting action research and other education related activities |

| Program Outcomes | Performance Indicators |
|---|--|
| | <ul style="list-style-type: none"> • Participate actively in the school's community outreach activities • Keep abreast with educational issues, trends and practices vis-à-vis local and global context to provide relevant learning experiences. • Conduct relevant research that contributes to current studies in Education • Design community-based activities to help learners achieve an integrated view of social development |
| 15. Exhibit competence in mathematical concepts and procedures | <ul style="list-style-type: none"> • Explain and illustrate clearly, accurately, and comprehensively the basic mathematical concepts, using relevant examples as needed • Demonstrate in detail basic mathematics procedures • Show the connections between mathematical concepts that are related to one another • Provide examples to illustrate the application of mathematical concepts and procedures |
| 16. Exhibit proficiency in relating mathematics to other curricular areas | <ul style="list-style-type: none"> • Create a curriculum guide that shows how mathematics can be integrated with other curricular areas • Identify teaching activities which support the implementation of the curriculum guide • Develop and utilize instructional materials that support the integration of mathematics with other curricular areas • Utilize appropriate technologies to achieve learning outcomes |
| 17. Manifest meaningful and comprehensive pedagogical content knowledge (PCK) of mathematics | <ul style="list-style-type: none"> • Demonstrate skills in various methods of learning in mathematics such as, conducting investigations, modeling, and doing research • Create and utilize learning experiences in the classroom which develop the learners' skills in discovery learning, problem solving, and critical thinking |
| 18. Demonstrate competence in designing, constructing and utilizing different forms of assessment in mathematics | <ul style="list-style-type: none"> • Design and utilize varied assessments tools in mathematics, including alternative forms of assessment • Analyze assessment results and use these to improve learning and teaching • Provide timely feedback of assessment results to students |
| 19. Demonstrate proficiency in problem-solving by solving and creating routine and non-routine problems with different levels of complexity | <ul style="list-style-type: none"> • Demonstrate skills in various problem solving heuristics • Select suitable examples to explain the various problem solving heuristics • Manifest creativity and critical thinking when selecting examples and problems to be used |

| Program Outcomes | Performance Indicators |
|--|--|
| | <p>in the classroom and in the assessment of students' learning</p> <ul style="list-style-type: none"> • Use varied resources for selecting and creating problems to develop the students' problem solving skills |
| <p>20. Use effectively appropriate approaches, methods, and techniques in teaching mathematics including technological tools</p> | <ul style="list-style-type: none"> • Demonstrate knowledge and skills in varied approaches and methods of teaching mathematics • Manifest discretion when selecting in teaching particular lessons • Utilize variety of student-centered approaches and methods in the classrooms • Demonstrate skills in the use of common mathematics software for teaching and learning mathematical concepts e.g. Graphmatica, Geogebra, and Geometer's Sketchpad • Develop and use materials that guide the students in using a mathematical software for discovering and learning mathematical concepts |
| <p>21. Appreciate mathematics as an opportunity for creative work, moments of enlightenment, discovery and gaining insights of the world</p> | <ul style="list-style-type: none"> • Model in class such mathematical attitudes as delight after having found the solution to a problem or a sense of wonder at how certain mathematical concepts evolved • Develop lessons that can help students appreciate the use of mathematics in daily life |

BACHELOR OF ELEMENTARY EDUCATION

Program Education Objectives

Three to five years after graduation, the Bachelor of Elementary Education (BEEd) alumni shall:

1. Exhibit high motivation and competency in specializing in the content and pedagogy in elementary education;
2. Manifest basic and higher level literacy, communication, numeracy, critical thinking, and learning skills needed for higher learning;
3. Demonstrate and practice the professional and ethical requirements of the teaching profession;
4. Facilitate learning of diverse types of learners in diverse types of learning environment;
5. Create and innovate teaching approaches, take informed risks in trying out these innovative approaches, and evaluate the effectiveness of such approaches in improving student learning;
6. Engage in continuing professional development by pursuing post-graduate studies and building professional links with colleagues to enrich teaching practice;

7. Maintain stature and behavior that upholds the dignity of teaching in addition to being competent and dedicated Filipino Christian teachers; and
8. Assume leadership role in one's career, profession, and community.

Program Outcomes and Performance Indicators

Upon completion of Bachelor of Elementary Education (BEEd), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Convey positive Filipino values in one's decisions and actions • Defend satisfactorily his/her thesis from a panel of experts |
| 3. Work effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals |
| 4. Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none"> • Maintain stature and behavior that uphold the Professional Code of Ethics • Immerse in an actual working environment in industry |
| 5. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 6. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 7. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship • Participate actively in the community's spiritual and social advocacy or extension program |
| 8. Articulate the rootedness of education in philosophical, socio-cultural, historical, psychological, and political contexts | <ul style="list-style-type: none"> • Discuss in-depth the interplay of various contexts in education |
| 9. Demonstrate mastery of subject matter/discipline | <ul style="list-style-type: none"> • Explain subject matter content clearly, accurately and comprehensively • Relate content with past and future lessons • Provide example from real life to make learning meaningful |

| Program Outcomes | Performance Indicators |
|---|---|
| | <ul style="list-style-type: none"> Integrate recent developments in education and in the specific field to enrich learning experiences |
| 10. Facilitate learning using a wide range of teaching methodologies and delivery modes appropriate to specific learners and their environments | <ul style="list-style-type: none"> Utilize appropriate teaching-learning methods and technology for specific subject matter content |
| 11. Develop innovative curricula, instructional plans, teaching approaches, and resources for diverse learners | <ul style="list-style-type: none"> Design innovative strategies that heighten students' engagement in the classroom Prepare instructional plans utilizing various approaches, methods, and techniques Conduct teaching demonstrations to show effective use different approaches, methods, and techniques |
| 12. Apply skills in the development and utilization of ICT to promote quality, relevant, and sustainable educational practices | <ul style="list-style-type: none"> Utilize appropriate pedagogy and use of technology for the different content areas Initiate advocacy campaigns towards the attainment of sustainable development goals through technology Integrate the environmental principles in learning and teaching through ICT Use context appropriate technology in teaching-learning English vis-à-vis 21st Century learning Use tools and technology to enhance learning and teaching Utilize appropriate technologies to achieve learning outcomes |
| 13. Demonstrate a variety of thinking skills in planning, monitoring, assessing, and reporting learning processes and outcomes | <ul style="list-style-type: none"> Employ effective teaching techniques for diverse types of learners in varied learning conditions Design and utilize a variety of appropriate assessment techniques to monitor and evaluate learning Create and utilize learning experiences in the classrooms to develop learners' skills in discovery learning, problem learning, and critical thinking Produce assessment materials to measure students' performance |
| 14. Practice professional and ethical teaching standards sensitive to the changing local, national, and global realities | <ul style="list-style-type: none"> Maintain stature and behavior that uphold the Professional Code of Ethics Immerse in an actual working environment in industry |
| 15. Pursue lifelong learning for personal and professional growth through varied experiential and field-based opportunities | <ul style="list-style-type: none"> Access information from local and foreign media about educational issues to enhance knowledge Participate in research to improve the teaching and learning of the different courses |

| Program Outcomes | Performance Indicators |
|--|---|
| | <ul style="list-style-type: none"> • Join seminars/trainings/workshops and related activities to improve the teaching and learning of the different courses • Pursue personal growth and professional development through attendance in seminar-workshops, participation in demo-fests, conducting action research and other education related activities • Participate actively in the school's community outreach activities • Keep abreast with educational issues, trends and practices vis-à-vis local and global context to provide relevant learning experiences. • Conduct relevant research that contributes to current studies in Education • Design community-based activities to help learners achieve an integrated view of social development |
| <p>16. Demonstrate in-depth understanding of the diversity of learners in various learning areas.</p> | <ul style="list-style-type: none"> • Identify various types of learners and provide them with appropriate, culturally-relevant learning activities and experiences • Develop and utilize relevant materials that match the learners' learning styles, goals, and culture • Select instructional strategies for the development of learners' critical and creative thinking skills • Utilize developmentally appropriate activities in teaching the different learning areas • Utilize appropriate technologies to achieve the learning outcomes • Apply theories of learning in designing, learning-teaching experiences |
| <p>17. Manifest meaningful and comprehensive pedagogical content knowledge (PCK) of the different subject areas.</p> | <ul style="list-style-type: none"> • Explain subject matter content clearly, accurately, and comprehensively • Relate current content with past and future lessons • Integrate recent developments in education and in the specific field to enrich learning • Provide examples from real life to make learning meaningful • Utilize appropriate teaching-learning methods and technology for specific subject matter content • Keep abreast with educational issues, trends, and practices vis-à-vis local and global context to provide relevant learning experiences |

| Program Outcomes | | Performance Indicators |
|-------------------------|--|---|
| 18. | Utilize appropriate assessment and evaluation tools to measure learning outcomes. | <ul style="list-style-type: none"> • Design authentic assessment, evaluation instruments, and alternative assessment tools • Interpret assessment results and use these to improve learning and teaching • Keep accurate and updated records of the learners' performance using technology tools where feasible and appropriate • Provide timely feedback of assessment results to parents and other stakeholders |
| 19. | Manifest skills in communication, higher order thinking and use of tools and technology to accelerate learning and teaching. | <ul style="list-style-type: none"> • Demonstrate skills in creative and critical thinking, logical reasoning, problem solving, and decision making in various classroom situations • Create learning experiences that develop the learners' higher order thinking skills • Provide opportunities that develop the learners' communication skills • Use tools and technology to enhance learning and teaching |
| 20. | Demonstrate positive attributes of a model teacher, both as an individual and as a professional. | <ul style="list-style-type: none"> • Act according to the norms of the teaching profession in dealing with students, parents, colleagues, and other stakeholders • Manifest positive personal and professional qualities of a teacher • Observe integrity and professionalism in handling issues, conflicts, and controversies related to student welfare as well as parents and community concerns |
| 21. | Manifest a desire to continuously pursue personal and professional development | <ul style="list-style-type: none"> • Pursue a personal growth and professional development through attendance in seminar-workshops, participation in demo-fests, conducting action research, and other education-related activities • Participate actively in the school's community outreach activities. |

SCHOOL OF BUSINESS, MANAGEMENT, AND ACCOUNTANCY

School Logo



Vision

The School of Business, Management, and Accountancy envisions itself as a Center of Development in the field of business education in the region, a leader in providing competent professionals, and entrepreneurs who are fully aware of their social responsibility.

Mission

The School Business, Management, and Accountancy commits itself to develop professionals and entrepreneurs who are responsive to the technological developments, economic conditions, stakeholders needs, and caring of nature and environment, by providing an education imbued with Filipino, Dominican, and Christian attitudes and principles.

Quality Objectives

1. To continually develop curricular programs that are industry aligned and competency- based
2. To assure compliance with required quality standard of education through periodic review of programs
3. To continually and consistently equip students with competencies that will prepare them to meet the industry requirements

4. To provide a sustainable venue for self-discovery and personal development of student that will give them a Knight advantage of being cultured and refined professionals, entrepreneurs and service providers trained in Filipino, Dominican, and Christian orientation
5. To sustain continual development of administrators, faculty and personnel through continuing professional growth and total human development
6. To develop research capability that responds to glocal and industry demand
7. To inculcate the sense of corporate social responsibility through involvement in community extension services

ACADEMIC PROGRAMS

BACHELOR OF SCIENCE IN ACCOUNTANCY

Program Educational Objectives

The Bachelor of Science in Accountancy (BSA) aims to train individuals to become competent, ethical, and global financial and accounting practitioners. Three to five years after graduation, the BSA alumni shall be able:

1. Develop and maintain an attitude of learning to learn in order to maintain their competence;
2. Develop knowledge-based problem solving skills and ethical values;
3. Support the various stakeholders in taking strategic and operating decisions through the presentation and analysis of financial data and information arising from business transactions;
4. Practice as accounting professionals engaged in services such as, but not limited to, audit and assurance, tax consultancy and management advisory anchored on professional ethics and moral values;
5. Objectively design, develop and evaluate accounting systems;
6. Conduct accounting and finance related research in organizing people and resources to create value;
7. Contribute to the economic development as responsible partners of the government and stakeholders through managing and/or establishing income generating centers where they portray the roles of strategic business partners and change agents and/or consultants, as entrepreneurs, or managers in government agencies such as those in internal revenues, finance, and trade and industries; and
8. Impart and share expertise to those in the academe and those pursuing continuing professional development.

Program Outcomes and Performance Indicators

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |

| Program Outcomes | Performance Indicators |
|--|---|
| 2. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> ● Express oneself clearly in verbal or written forms the updates in one's career or vocation ● Convey positive Filipino values in one's decisions and actions ● Defend satisfactorily his/her thesis from a panel of experts |
| 3. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> ● Demonstrate responsible Filipino citizenship in local, national or international communities |
| 4. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> ● Plan and take action for the welfare of the community ● Continually engage oneself in development projects and activities that address the community needs |
| 5. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> ● Observe the Dominican values of study, prayer, community, and service ● Uphold ecological consciousness and engage in environmental stewardship ● Participate actively in the community's spiritual and social advocacy or extension program |
| 6. Describe the basic functions of management such as planning, organizing, leading, and controlling | <ul style="list-style-type: none"> ● Prepare comprehensive strategic business plan ● Develop and defend a business development plan that incorporate relevant inputs such as laws, market research and feasibility study, product development, among others ● Assume leadership role in business management activities |
| 7. Identify and describe the basic concepts that underlie each of the functional areas of business (marketing, finance, human resources management, production and operations management, information technology, and strategic management) and employ these concepts in various business situations | <ul style="list-style-type: none"> ● Apply the concept of management to assess and formulate operational plan ● Employ essential strategy-related components and principles for decision making ● Evaluate the merits and implications of selected case studies pertaining to various aspects of business operations ● Conduct qualitative interpretations and analyses anchored on the evaluated case studies to draw up insightful strategic business conclusions |
| 8. Select the proper decision making tools to critically, analytically and creatively solve problems and drive results | <ul style="list-style-type: none"> ● Apply appropriate quantitative tools to address a business case problem ● Apply sound solution to problems encountered in business operations |
| 9. Apply information and communication technology (ICT) skills as required by the business environment | <ul style="list-style-type: none"> ● Prepare a social media marketing plan ● Create business promotional activities using technology application ● Apply technical knowledge on an ERP system commonly used in the industry ● Utilize digital technology to solve pertinent business challenges |

| Program Outcomes | Performance Indicators |
|--|--|
| 10. Work effectively with other stakeholders and manage conflict in the workplace | <ul style="list-style-type: none"> • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals • Conduct a planning and problem-solving meeting to resolve issues in business event • Engage in activities that promote teamwork • Apply business ethics in dealing with stakeholders |
| 11. Organize and lead groups to plan and implement business related activities | <ul style="list-style-type: none"> • Develop and defend a business plan incorporating sales and marketing principles and financial analysis • Identify methods, techniques, and devices appropriate in an organization in business implementation and process • Engage in entrepreneurial management • Explain the path of securing business permits – theoretically and practically – should an enterprise become viable and implementable |
| 12. Demonstrate corporate and social responsibility | <ul style="list-style-type: none"> • Propose social responsibility strategies and compliance action plan for a business • Apply appropriate CSR technique in decision making • Participate in a corporate and social responsibility endeavor |
| 13. Exercise high personal, moral, and ethical standards | <ul style="list-style-type: none"> • Exhibit honesty, fairness, equity, and good faith in transacting in business. • Promote good governance practices in the conduct of one's business • Apply ethics in business endeavors • Maintain stature and behavior that uphold the Professional Code of Ethics • Immerse in an actual working environment in industry |
| 14. Resolve business issues and problems, with a global and strategic perspective using knowledge and technical proficiency in the areas of financial accounting and reporting, cost accounting and management, accounting and control, taxation, and accounting information systems | <ul style="list-style-type: none"> • Record financial transactions in compliance with generally accepted accounting and reporting standards (both global and local) for sole proprietorships, partnerships, corporations, government, and non-profit organizations • Prepare Accountancy reports such as budgets and business plans using appropriate framework • Conduct financial and operational audits of all types of business enterprise and not-for-profit organization • Prepare individual and corporate income tax returns and conduct basic tax planning in |

| Program Outcomes | Performance Indicators |
|--|--|
| | compliance with relevant legislations and regulations <ul style="list-style-type: none"> • Perform cost-benefit analysis for management decisions • Design and implement a management control and performance system • Communicate effectively the results of financial analysis |
| 15. Conduct accountancy research through independent studies of relevant literature and appropriate use of accounting theory and methodologies | <ul style="list-style-type: none"> • Design an appropriate research plan • Prepare a critical review of related literature • Analyze results of study and discuss implications and contributions to body of knowledge • Present findings and conclusions of the study • Communicate effectively the recommendations |
| 16. Employ technology as a business tool in capturing financial and non-financial information, generating reports and making decisions | <ul style="list-style-type: none"> • Customize an accounting software to a particular business entity • Develop a financial model using a spreadsheet software • Analyze the performance of a particular business entity using appropriate accounting software tools and functions |
| 17. Apply knowledge and skills to successfully respond to various types of assessments (including professional licensure and certifications) | <ul style="list-style-type: none"> • Perform accounting-related work in actual workplace based on pre-set standards • Pass licensure examinations or qualify for professional accreditations/certifications |
| 18. Confidently maintain a commitment to good corporate citizenship, social responsibility and ethical practice in performing functions as an accountant | <ul style="list-style-type: none"> • Promote adherence to legitimate and acceptable ethical objectives of an organization • Communicate limitations or other constraints that would preclude responsible judgment or successful performance of an activity such as in the practicum or on-the-job training. |

**BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
MAJOR IN MARKETING MANAGEMENT**

Program Education Objectives

The Bachelor of Science in Business Administration major in Marketing Management (BSBA MKM) aims to train individuals to become competent and ethical marketing and management practitioners. Three to five years after graduation, the BSBA MKM alumni shall:

1. Assume supervisory and/or managerial responsibilities within their organization;
2. Pursue graduate studies in business and management;
3. Manage a business;

4. Develop and implement a comprehensive marketing plan for any type of product, service or business competently and guided by Christian values and ethical practices;
5. Serve the greater good by creating innovative and beneficial products and services for the Filipino people;
6. Utilize the marketing mix to solve marketing problems and identify marketing opportunities;
7. Conduct marketing research and utilize marketing intelligence system in organizing people and resources to create value.
8. Contribute to the economic development as responsible partners of the government and stakeholders through managing and/or establishing income generating centers where they portray the roles of strategic business partners and change agents and/or consultants, as entrepreneurs, or managers in government agencies such as those in trade and industries; and
9. Impart and share expertise to those in the academe and those pursuing continuing professional development.

Program Outcomes and Performance Indicators

Upon completion of the Bachelor of Science in Business Administration major in Marketing Management (BSBA MKM) program, the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | | Performance Indicators | |
|-------------------------|--|-------------------------------|--|
| 1. | Articulate and discuss the latest developments in the specific field of practice | • | Engage in continual learning in one's specialization |
| 2. | Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | • | Express oneself clearly in verbal or written forms the updates in one's career or vocation |
| | | • | Convey positive Filipino values in one's decisions and actions |
| 3. | Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | • | Demonstrate responsible Filipino citizenship in local, national or international communities |
| 4. | Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | • | Plan and take action for the welfare of the community |
| | | • | Continually engage oneself in development projects and activities that address the community needs |
| 5. | Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | • | Observe the Dominican values of study, prayer, community, and service |
| | | • | Uphold ecological consciousness and engage in environmental stewardship |
| | | • | Participate actively in the community's spiritual and social advocacy or extension program |
| 6. | Perform the basic functions of management such as planning, organizing, leading, and controlling | • | Prepare comprehensive strategic business plan |
| | | • | Develop and defend a business development plan that incorporate relevant inputs such as laws, market research and feasibility study, product development, among others |

| Program Outcomes | Performance Indicators |
|---|---|
| | <ul style="list-style-type: none"> • Assume leadership role in business management activities |
| <p>7. Apply the basic concepts that underlie each of the functional areas of business (marketing, finance, human resources management, production and operations management, information technology, and strategic management) and employ these concepts in various business situations</p> | <ul style="list-style-type: none"> • Apply the concept of management to assess and formulate operational plan • Employ essential strategy-related components and principles for decision making • Evaluate the merits and implications of selected case studies pertaining to various aspects of business operations • Conduct qualitative interpretations and analyses anchored on the evaluated case studies to draw up insightful strategic business conclusions |
| <p>8. Select the proper decision making tools to critically, analytically and creatively solve problems and drive results</p> | <ul style="list-style-type: none"> • Apply appropriate quantitative tools to address a business case problem • Apply sound solution to problems encountered in business operations |
| <p>9. Apply information and communication technology (ICT) skills as required by the business environment</p> | <ul style="list-style-type: none"> • Prepare a social media marketing plan • Create business promotional activities using technology application • Apply technical knowledge on an ERP system commonly used in the industry • Utilize digital technology to solve pertinent business challenges |
| <p>10. Work effectively with other stakeholders and manage conflict in the workplace</p> | <ul style="list-style-type: none"> • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals • Conduct a planning and problem-solving meeting to resolve issues in business event • Engage in activities that promote teamwork • Apply business ethics in dealing with stakeholders |
| <p>11. Plan and implement business related activities</p> | <ul style="list-style-type: none"> • Develop and defend a business plan incorporating sales and marketing principles and financial analysis • Identify methods, techniques, and devices appropriate in an organization in business implementation and process • Engage in entrepreneurial management • Explain the path of securing business permits – theoretically and practically – should an enterprise become viable and implementable |
| <p>12. Demonstrate corporate and social responsibility</p> | <ul style="list-style-type: none"> • Propose social responsibility strategies and compliance action plan for a business • Apply appropriate CSR technique in decision making • Participate in a corporate and social responsibility endeavor |

| Program Outcomes | | Performance Indicators |
|------------------|--|--|
| 13. | Exercise high personal, moral, and ethical standards | <ul style="list-style-type: none"> • Exhibit honesty, fairness, equity, and good faith in transacting in business • Promote good governance practices in the conduct of one's business • Apply ethics in business endeavors. • Maintain stature and behavior that uphold the Professional Code of Ethics • Immerse in an actual working environment in industry |
| 14. | Analyze the business environment for strategic direction | <ul style="list-style-type: none"> • Prepare market needs analysis • Prepare strategic marketing management plan based on 4C's assessment: Context (PEST), Customers, Competitors, and Company |
| 15. | Prepare operational plans | <ul style="list-style-type: none"> • Prepare product/service specifications plan • Prepare sales force operational plan: budget forecast, territory design, and sales force size |
| 16. | Innovate business ideas based one merging industry | <ul style="list-style-type: none"> • Prepare business expansion plan • Prepare business diversification plan • Prepare strategic plan based on marketing research |
| 17. | Manage a strategic business unit for economic sustainability | <ul style="list-style-type: none"> • Prepare environment impact and mitigation plan • Prepare New Business and Market Penetration plan • Prepare New Business Development plan |
| 18. | Conduct business research | <ul style="list-style-type: none"> • Conduct project feasibility study • Conduct environmental scanning • Conduct competitive benchmarking |

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION MAJOR IN HUMAN RESOURCE MANAGEMENT

Program Education Objectives

The Bachelor of Science in Business Administration major in Human Resource Management (BSBA HRM) aims to train individuals to become competent and ethical Human Resource practitioners. Three to five years after graduation, the BSBA HRM alumni shall:

1. Assume supervisory and/or managerial responsibilities within their organization;
2. Pursue graduate studies in business and management;
3. Manage a business;
4. Perform human resource development functions proficiently;
5. Serve as change leaders in organizational development;
6. Provide human resource consulting to different organizations;
7. Serve as labor relations mediator;

8. Contribute to the economic development as responsible partners of the government and stakeholders through managing business organizations where they portray the roles of strategic business partners and change agents and/or consultants, as entrepreneurs, or managers of government agencies such as those in the department of labor and employment; and
9. Impart and share expertise to those in the academe and those pursuing continuing professional development.

Program Outcomes and Performance Indicators

Upon completion of the Bachelor of Science in Business Administration major in Human Resource Management (BSBA HRM) program, the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|---|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Convey positive Filipino values in one's decisions and actions |
| 3. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 4. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 5. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship • Participate actively in the community's spiritual and social advocacy or extension program |
| 6. Perform the basic functions of management such as planning, organizing, leading, and controlling | <ul style="list-style-type: none"> • Prepare comprehensive strategic business plan • Develop and defend a business development plan that incorporate relevant inputs such as laws, market research and feasibility study, product development, among others • Assume leadership role in business management activities |
| 7. Apply the basic concepts that underlie each of the functional areas of business (marketing, finance, human resources management, production and operations management, information technology, and | <ul style="list-style-type: none"> • Apply the concept of management to assess and formulate operational plan • Employ essential strategy-related components and principles for decision making |

| Program Outcomes | Performance Indicators |
|--|---|
| strategic management) and employ these concepts in various business situations | <ul style="list-style-type: none"> • Evaluate the merits and implications of selected case studies pertaining to various aspects of business operations • Conduct qualitative interpretations and analyses anchored on the evaluated case studies to draw up insightful strategic business conclusions |
| 8. Select the proper decision making tools to critically, analytically and creatively solve problems and drive results | <ul style="list-style-type: none"> • Apply appropriate quantitative tools to address a business case problem • Apply sound solution to problems encountered in business operations |
| 9. Apply information and communication technology (ICT) skills as required by the business environment | <ul style="list-style-type: none"> • Prepare a social media marketing plan • Create business promotional activities using technology application • Apply technical knowledge on an ERP system commonly used in the industry • Utilize digital technology to solve pertinent business challenges |
| 10. Work effectively with other stakeholders and manage conflict in the workplace | <ul style="list-style-type: none"> • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals • Conduct a planning and problem-solving meeting to resolve issues in business event • Engage in activities that promote teamwork • Apply business ethics in dealing with stakeholders |
| 11. Plan and implement business related activities | <ul style="list-style-type: none"> • Develop and defend a business plan incorporating sales and marketing principles and financial analysis • Identify methods, techniques, and devices appropriate in an organization in business implementation and process • Engage in entrepreneurial management • Explain the path of securing business permits – theoretically and practically – should an enterprise become viable and implementable |
| 12. Demonstrate corporate and social responsibility | <ul style="list-style-type: none"> • Propose social responsibility strategies and compliance action plan for a business • Apply appropriate CSR technique in decision making • Participate in a corporate and social responsibility endeavor |
| 13. Exercise high personal, moral, and ethical standards | <ul style="list-style-type: none"> • Exhibit honesty, fairness, equity, and good faith in transacting in business. • Promote good governance practices in the conduct of one's business • Apply ethics in business endeavors |

| Program Outcomes | Performance Indicators |
|--|--|
| | <ul style="list-style-type: none"> • Maintain stature and behavior that uphold the Professional Code of Ethics • Immerse in an actual working environment in industry |
| 14. Analyze the business environment for strategic direction | <ul style="list-style-type: none"> • Apply SWOT analysis or environmental scanning as inputs to strategic HRM formulation • Conduct HR Audit to evaluate the current human resource development strategies, structure, systems, styles and skills in the context of the short and long-term business plans of a company • Conduct an evaluation of human resource development (HRD) programs for a systematic collection of descriptive and judgmental information necessary to make effective training decisions related to HR functions |
| 15. Prepare operational plans | <ul style="list-style-type: none"> • Utilize techniques in the conduct of operational planning process • Develop a matrix to evaluate the successful implementation of operational plans • Apply varied tools used in problem solving and decision making in business organizations |
| 16. Innovate business ideas based one merging industry | <ul style="list-style-type: none"> • Formulate compensation and incentive policies • Formulate supplier support policies • Formulate an individual development plan (IDP) for employees to contribute to the attainment of business goals • Develop a management development program (MDP) for senior managers |
| 17. Manage a strategic business unit for economic sustainability | <ul style="list-style-type: none"> • Prepare environment impact and mitigation plan • Prepare an instrument to assess the risk management initiatives of a company • Prepare an evaluation tool for corporate training effectiveness |
| 18. Conduct business research | <ul style="list-style-type: none"> • Complete a research about an HR specialty area as inputs to policy review and implementation • Conduct a research about HRM agenda of either a private or government institution • Conduct an organizational climate assessment of a company |

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION MAJOR IN FINANCIAL MANAGEMENT

Program Educational Objectives

The Bachelor of Science in Business Administration major in Financial Management (BSBA FM) aims to train individuals to become competent and ethical financial managers and advisors. Three to five years after graduation, the BSBA FM alumni shall:

1. Assume supervisory and/or managerial responsibilities within their organization;
2. Pursue graduate studies in business and management;
3. Manage a business;
4. Analyze complicated scientific and professional problems and view a situation critically, address the current financial management issues of a company, take decisions, and complete highly qualified professional functions;
5. Manage and forecast a company's financial activities, ensuring its competitiveness and increasing its added value in the changing environment of global economy;
6. Perceive the interests of different groups, to argue and conduct discussions, communication and conflict management skills;
7. Exercise ethical responsibility about the impact of professional activities upon environment and society;
8. Assess and analyze the financial environment in the local and international markets; and
9. Impart and share expertise to those in the academe and those pursuing continuing professional development.

Program Outcomes and Performance Indicators

Upon completion of the Bachelor of Science in Business Administration major in Financial Management (BSBA FM) program, the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Convey positive Filipino values in one's decisions and actions • Defend satisfactorily his/her thesis from a panel of experts |
| 3. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 4. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |

| Program Outcomes | Performance Indicators |
|--|---|
| 5. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> ● Observe the Dominican values of study, prayer, community, and service ● Uphold ecological consciousness and engage in environmental stewardship ● Participate actively in the community's spiritual and social advocacy or extension program |
| 6. Perform the basic functions of management such as planning, organizing, leading, and controlling | <ul style="list-style-type: none"> ● Prepare comprehensive strategic business plan ● Develop and defend a business development plan that incorporate relevant inputs such as laws, market research and feasibility study, product development, among others ● Assume leadership role in business management activities |
| 7. Apply the basic concepts that underlie each of the functional areas of business (marketing, finance, human resources management, production and operations management, information technology, and strategic management) and employ these concepts in various business situations | <ul style="list-style-type: none"> ● Apply the concept of management to assess and formulate operational plan ● Employ essential strategy-related components and principles for decision making ● Evaluate the merits and implications of selected case studies pertaining to various aspects of business operations ● Conduct qualitative interpretations and analyses anchored on the evaluated case studies to draw up insightful strategic business conclusions |
| 8. Select the proper decision making tools to critically, analytically and creatively solve problems and drive results | <ul style="list-style-type: none"> ● Apply appropriate quantitative tools to address a business case problem ● Apply sound solution to problems encountered in business operations |
| 9. Apply information and communication technology (ICT) skills as required by the business environment | <ul style="list-style-type: none"> ● Prepare a social media marketing plan ● Create business promotional activities using technology application ● Apply technical knowledge on an ERP system commonly used in the industry ● Utilize digital technology to solve pertinent business challenges |
| 10. Work effectively with other stakeholders and manage conflict in the workplace | <ul style="list-style-type: none"> ● Perform well as a team leader or member in any kind of group project or activity ● Perform independently and cooperatively to accomplish worthwhile goals ● Conduct a planning and problem-solving meeting to resolve issues in business event ● Engage in activities that promote teamwork ● Apply business ethics in dealing with stakeholders |
| 11. Plan and implement business related activities | <ul style="list-style-type: none"> ● Develop and defend a business plan incorporating sales and marketing principles and financial analysis |

| Program Outcomes | Performance Indicators |
|--|--|
| | <ul style="list-style-type: none"> • Identify methods, techniques, and devices appropriate in an organization in business implementation and process • Engage in entrepreneurial management • Explain the path of securing business permits – theoretically and practically – should an enterprise become viable and implementable |
| 12. Demonstrate corporate and social responsibility | <ul style="list-style-type: none"> • Propose social responsibility strategies and compliance action plan for a business • Apply appropriate CSR technique in decision making • Participate in a corporate and social responsibility endeavor |
| 13. Exercise high personal, moral, and ethical standards | <ul style="list-style-type: none"> • Exhibit honesty, fairness, equity, and good faith in transacting in business. • Promote good governance practices in the conduct of one's business • Apply ethics in business endeavors • Maintain stature and behavior that uphold the Professional Code of Ethics • Immerse in an actual working environment in industry |
| 14. Analyze the business environment for strategic direction | <ul style="list-style-type: none"> • Conduct SWOT Analysis • Conduct PEST Analysis • Conduct Cost Benefit Analysis |
| 15. Prepare operational plans | <ul style="list-style-type: none"> • Prepare Capital expense • Prepare Operational expense • Prepare Investment planning |
| 16. Innovate business ideas based one merging industry | <ul style="list-style-type: none"> • Formulate compensation and incentive policies • Formulate supplier support policies • Prepare financing plan for business expansion |
| 17. Manage a strategic business unit for economic sustainability | <ul style="list-style-type: none"> • Prepare environment impact and mitigation plan • Prepare financial risk management plan • Prepare investment plan |
| 18. Conduct business research | <ul style="list-style-type: none"> • Conduct project feasibility study • Conduct environmental scanning • Conduct competitive benchmarking |

BACHELOR OF SCIENCE IN ENTREPRENEURSHIP

Program Education Objectives

The Bachelor of Science in Entrepreneurship (BS Entrep) aims to train individuals to become competent and ethical entrepreneurs and business stewards. Three to five years after graduation, the BS Entrep alumni shall:

1. Set up a business;
2. Manage and operate a business;
3. Assume managerial position in the field of Business Development, Corporate Planning, and other related positions in the corporate of Public organizations or non-government organizations;
4. Identify entrepreneurial opportunities that exist, those that represent untapped markets and underserved markets, and those that can be created by applying existing technologies to new fields and new markets;
5. Have ability to create entrepreneurial opportunities through the invention, development and exploitation of entirely new ideas, products and services, and/or the creation of new industries, infrastructures, and ways of doing business.
6. Demonstrate self-confidence to actually create and grow entrepreneurial ventures which is established through the mastery of entrepreneurial skills; and
7. Impart and share expertise to those in the academe and those pursuing continuing professional development.

Program Outcomes and Performance Indicators

Upon completion of the Bachelor of Science in Entrepreneurship (BS Entrep), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none">• Engage in continual learning in one's specialization |
| 2. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none">• Express oneself clearly in verbal or written forms the updates in one's career or vocation• Convey positive Filipino values in one's decisions and actions• Defend satisfactorily his/her thesis from a panel of experts |
| 3. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none">• Demonstrate responsible Filipino citizenship in local, national or international communities |
| 4. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none">• Plan and take action for the welfare of the community |

| Program Outcomes | Performance Indicators |
|---|---|
| | <ul style="list-style-type: none"> • Continually engage oneself in development projects and activities that address the community needs |
| <p>5. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds</p> | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship • Participate actively in the community's spiritual and social advocacy or extension program |
| <p>6. Perform the basic functions of management such as planning, organizing, leading, and controlling.</p> | <ul style="list-style-type: none"> • Prepare comprehensive strategic business plan • Develop and defend a business development plan that incorporate relevant inputs such as laws, market research and feasibility study, product development, among others • Assume leadership role in business management activities |
| <p>7. Apply the basic concepts that underlie each of the functional areas of business (marketing, finance, human resources management, production and operations management, information technology, and strategic management) and employ these concepts in various business situations</p> | <ul style="list-style-type: none"> • Apply the concept of management to assess and formulate operational plan • Employ essential strategy-related components and principles for decision making • Evaluate the merits and implications of selected case studies pertaining to various aspects of business operations • Conduct qualitative interpretations and analyses anchored on the evaluated case studies to draw up insightful strategic business conclusions |
| <p>8. Select the proper decision making tools to critically, analytically and creatively solve problems and drive results</p> | <ul style="list-style-type: none"> • Apply appropriate quantitative tools to address a business case problem • Apply sound solution to problems encountered in business operations |
| <p>9. Apply information and communication technology (ICT) skills as required by the business environment</p> | <ul style="list-style-type: none"> • Prepare a social media marketing plan • Create business promotional activities using technology application • Apply technical knowledge on an ERP system commonly used in the industry • Utilize digital technology to solve pertinent business challenges |
| <p>10. Work effectively with other stakeholders and manage conflict in the workplace</p> | <ul style="list-style-type: none"> • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals • Conduct a planning and problem-solving meeting to resolve issues in business event • Engage in activities that promote teamwork |

| Program Outcomes | Performance Indicators |
|--|---|
| | <ul style="list-style-type: none"> ● Apply business ethics in dealing with stakeholders |
| 11. Plan and implement business related activities | <ul style="list-style-type: none"> ● Develop and defend a business plan incorporating sales and marketing principles and financial analysis ● Identify methods, techniques, and devices appropriate in an organization in business implementation and process ● Engage in entrepreneurial management ● Explain the path of securing business permits – theoretically and practically – should an enterprise become viable and implementable |
| 12. Demonstrate corporate and social responsibility | <ul style="list-style-type: none"> ● Propose social responsibility strategies and compliance action plan for a business ● Apply appropriate CSR technique in decision making ● Participate in a corporate and social responsibility endeavor |
| 13. Exercise high personal, moral, and ethical standards | <ul style="list-style-type: none"> ● Exhibit honesty, fairness, equity, and good faith in transacting in business. ● Promote good governance practices in the conduct of one's business ● Apply ethics in business endeavors ● Maintain stature and behavior that uphold the Professional Code of Ethics ● Immerse in an actual working environment in industry |
| 14. Conduct a self-assessment to determine level of entrepreneurial competencies | <ul style="list-style-type: none"> ● Complete self-assessment instrument, with analysis of personal traits and competencies and evaluation of suitability for entrepreneurship ● Successfully operate a micro-venture for at least one school year, with fully accomplished business registration and detailed business performance review |
| 15. Analyze/scan the environment to determine business opportunities and develop their profitability profiles from which entrepreneurial ventures can be selected from | <ul style="list-style-type: none"> ● Propose industry or sector analysis and discussion of business opportunities within the industry or sector ● Prepare location analysis and site mapping ● Exposure in field studies to observe existing enterprises and develop skills in identifying good business opportunities |
| 16. Prepare business plan | <ul style="list-style-type: none"> ● Prepare marketing plan ● Prepare production and operations plan ● Prepare financial plan, with capital budget, master budget, five-year projections and formal income statements ● Complete detailed business plan |

| Program Outcomes | Performance Indicators |
|---|---|
| 17. Mobilize the necessary human, financial, logistical, and technical resources to implement the business plan | <ul style="list-style-type: none"> • Implement business plan through field study and exposure on an existing enterprise on how such a venture implemented its own business plan • Apply good professional judgment in introducing improvements in business in terms of acquiring the necessary resources |
| 18. Prepare and comply with requirements for business operation | <ul style="list-style-type: none"> • Assist a start-up business enterprise obtain all legal requirements from local and national government agencies • Monitor the rudiments, mechanics, and pace of securing all business permits • Analyze the rationale of requiring such business permits and recommend ways to ease up the process of meeting these government requirements |
| 19. Operate and manage the enterprise observing good governance and social responsibility | <ul style="list-style-type: none"> • Successfully operate a micro-venture for at least one school year, with fully accomplished business registration and detailed business performance review • Implement good governance and CSR best practices in business ventures |

SCHOOL OF ENGINEERING AND ARCHITECTURE

School Logo



Vision

We envision Letran Calamba School of Engineering and Architecture as a dynamic school and center of excellence in engineering, architecture education and technology.

Mission

We commit ourselves to produce God-centered, loyal to the country, locally and globally competitive Letranite engineers and architects through quality curricular programs and facilities, and competent and committed personnel.

Quality Objectives

1. To provide students with quality programs in the fields of engineering and architecture education that are in demand and responsive to the national and international industry needs.
2. To deliver relevant and quality engineering and architecture curricular programs that promotes the Colegio as one of the nationally and internationally recognized educational institutions.
3. To continually prepare and improve the administrators, faculty members, and staff to deliver quality instruction and support services that will effectively and efficiently contribute to the delivery of programs.

ACADEMIC PROGRAMS

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Program Educational Objectives

Three to five years after graduation, the BS Mechanical Engineering (BSME) alumni shall:

1. Advance their practice in the field of mechanical engineering;
2. Assume at least a supervisory position in the same or related field of endeavor;
3. Manifest proper ethical principles and values founded in Filipino, Dominican and Christian orientation;
4. Contribute goodwill in the country and other nations; and
5. Pursue advance education and professional training activities to become world class professionals.

Program Outcomes and Performance Indicators

Upon completion of BS Mechanical Engineering (BSME), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|---|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none">• Engage in continual learning in one's specialization |
| 2. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none">• Demonstrate responsible Filipino citizenship in local, national or international communities |
| 3. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none">• Plan and take action for the welfare of the community• Continually engage oneself in development projects and activities that address the community needs |
| 4. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none">• Observe the Dominican values of study, prayer, community, and service• Uphold ecological consciousness and engage in environmental stewardship• Participate actively in the community's spiritual and social advocacy or extension program |
| 5. Apply knowledge of mathematics and science to solve complex mechanical engineering problems | <ul style="list-style-type: none">• Analyze the parameters from the given data that are needed in solving the problem• Formulate the needed equation in solving the problem• Develop the procedure in solving the problem• Apply the appropriate mathematical tools in solving the problem |

| Program Outcomes | Performance Indicators |
|--|--|
| 6. Develop and conduct experiments, as well as to analyze and interpret data | <ul style="list-style-type: none"> • Define objectives of the experiment • Collect sufficient and appropriate data to support the objectives of the experiment • Analyze data using appropriate methods • Relate data analysis to the objectives of the experiment • Draw out appropriate or reasonable conclusions |
| 7. Design a system, component, or process to meet desired needs within realistic constraints, in accordance with standards | <ul style="list-style-type: none"> • Gather information on relevant fundamentals, theory / concepts, similar existing systems (demonstrate technical competence) • Define the problem and identify the design constraints, which may include economic, environmental, political, ethical, and health and safety constraints • Define functional requirements for the design (specific required actions necessary for the design to be achieved) • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available • Systematically present the designed system, component, or process |
| 8. Work/Function effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform independently and cooperatively to accomplish worthwhile goals • Fulfill team role's duties as a member in any kind of group project or activity • Fulfill team role's duties as a member leader in any kind of group project or activity • Share in a team-based work |
| 9. Identify, formulate, and solve complex mechanical engineering problems | <ul style="list-style-type: none"> • Identify problem/s in a community that requires expertise in mechanical engineering based on needs assessment • Formulate problem statement, objectives, scope, and limitations, and identify resources required to solve the problems • Provide technical solution/s to the problem that is acceptable to the stakeholders • Demonstrate the use of appropriate modern tools to solve the problems |
| 10. Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none"> • Apply professional standards (use of handbooks, codes, standards) in obtaining, reporting, analyzing data or in crafting design. • Demonstrate high academic standards, personal responsibilities, and exercise good judgment and discretion. |

| Program Outcomes | Performance Indicators |
|--|---|
| | <ul style="list-style-type: none"> • Immerse in an actual working environment in industry • Evaluate the ethical and societal implications of a design solution to problem in mechanical engineering |
| <p>11. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry</p> | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Organize presentation/reports in well-structured logical sequence, making it easy for audience/reader to follow clearly the content • Convey positive Filipino values in one's decisions and actions • Present a proposed solution in class or in a public forum • Defend satisfactorily his/her thesis/design project from a panel of experts |
| <p>12. Identify and analyze the impact of mechanical engineering solutions in a global, economic, environmental, and societal context</p> | <ul style="list-style-type: none"> • Investigate a given engineering problem and propose related solutions • Analyze the short and long term impact (political, economic, environmental, health and safety, cultural) of proposed solutions on society (individual, local, regional or global context) • Choose the best engineering solution that will have the best impact on the society. • Criticize/ justify the effects of engineering solutions to a given problem. |
| <p>13. Recognize the need for, and engage in life-long learning</p> | <ul style="list-style-type: none"> • Aware of the need for life-long learning • Engaged in life-long learning activities |
| <p>14. Know, articulate and discuss contemporary issues and development in the specific field of practice</p> | <ul style="list-style-type: none"> • Identify and relate in a variety of contemporary issues or topic • Discuss technical issues relevant to field of practices • Design the appropriate technique that can be applied in assessing the interrelationships of the cited contemporary issues |
| <p>15. Apply techniques, skills, and modern engineering tools necessary for engineering practice</p> | <ul style="list-style-type: none"> • Utilize problem solving and design techniques/methods in their discipline. • Solve problems using current software used in the discipline. • Utilize the available hardware/equipment used in the discipline |
| <p>16. Apply knowledge of engineering and management principles as a member and leader of a team, and to manage projects in a multi-disciplinary environment</p> | <ul style="list-style-type: none"> • Understand the fundamentals of team dynamics and leadership • Function as an effective member or leader of diverse engineering teams and earn the |

| Program Outcomes | Performance Indicators |
|--|---|
| | trust and confidence of colleagues through competent and timely completion of tasks <ul style="list-style-type: none"> • Recognize the value of alternative and various viewpoints, and to know the importance of professional networking from other team members • Confidently pursue and discern expert assistance and professional advice from other members • Take initiative and fulfill the leadership role, while respecting the agreed roles of others |
| 17. Infer at least one specialized field of mechanical engineering practice | <ul style="list-style-type: none"> • Identify and relate in a variety of specialized fields of Mechanical Engineering practice. • Discuss technical issues relevant to fields of practice. • Design the appropriate technique that can be applied in assessing the inter-relationships of the cited specialized fields of Mechanical Engineering practice. |
| 18. Manifest competencies supporting national, regional or local development plans | <ul style="list-style-type: none"> • Use appropriate technique/s that can be applied in developing a project for national, regional, or local consumption. • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available. • Develop technology-based project for national, regional, or local consumption. |

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Program Educational Objectives

Three to five years after graduation, the BS Computer Engineering (BSCpE) alumni shall:

1. Advance their practice in the field of computer engineering;
2. Assume at least a supervisory position in the same or related field of endeavor;
3. Manifest proper ethical principles and values founded in Filipino, Dominican and Christian orientation;
4. Contribute goodwill in the country and other nations; and
5. Pursue advance education and professional training activities to become world class professionals.

Program Outcomes and Performance Indicators

Upon completion of BS Computer Engineering (BSCpE), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 3. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 4. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship • Participate actively in the community's spiritual and social advocacy or extension program |
| 5. Apply knowledge of mathematics and science to solve complex mechanical engineering problems | <ul style="list-style-type: none"> • Analyze the parameters from the given data that are needed in solving the problem • Formulate the needed equation in solving the problem • Develop the procedure in solving the problem • Apply the appropriate mathematical tools in solving the problem |
| 6. Develop and conduct experiments, as well as to analyze and interpret data | <ul style="list-style-type: none"> • Define objectives of the experiment • Collect sufficient and appropriate data to support the objectives of the experiment • Analyze data using appropriate methods • Relate data analysis to the objectives of the experiment • Draw out appropriate or reasonable conclusions |
| 7. Design a system, component, or process to meet desired needs within realistic constraints, in accordance with standards | <ul style="list-style-type: none"> • Gather information on relevant fundamentals, theory / concepts, similar existing systems (demonstrate technical competence) • Define the problem and identify the design constraints, which may include economic, environmental, political, ethical, and health and safety constraints • Define functional requirements for the design (specific required actions necessary for the design to be achieved) |

| Program Outcomes | Performance Indicators |
|---|---|
| | <ul style="list-style-type: none"> • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available • Systematically present the designed system, component, or process |
| 8. Work/Function effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform independently and cooperatively to accomplish worthwhile goals • Fulfill team role's duties as a member in any kind of group project or activity • Fulfill team role's duties as a member leader in any kind of group project or activity • Share in a team-based work |
| 9. Identify, formulate, and solve complex computer engineering problems | <ul style="list-style-type: none"> • Identify problem/s in a community that requires expertise in mechanical engineering based on needs assessment • Formulate problem statement, objectives, scope, and limitations, and identify resources required to solve the problems • Provide technical solution/s to the problem that is acceptable to the stakeholders • Demonstrate the use of appropriate modern tools to solve the problems |
| 10. Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none"> • Apply professional standards (use of handbooks, codes, standards) in obtaining, reporting, analyzing data or in crafting design. • Demonstrate high academic standards, personal responsibilities, and exercise good judgment and discretion. • Immerse in an actual working environment in industry • Evaluate the ethical and societal implications of a design solution to problem in computer engineering |
| 11. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Organize presentation/reports in well-structured logical sequence, making it easy for audience/reader to follow clearly the content • Convey positive Filipino values in one's decisions and actions • Present a proposed solution in class or in a public forum • Defend satisfactorily his/her thesis/design project from a panel of experts |
| 12. Identify and analyze the impact of computer engineering solutions in a global, economic, environmental, and societal context | <ul style="list-style-type: none"> • Investigate a given engineering problem and propose related solutions • Analyze the short and long term impact (political, economic, environmental, health and safety, cultural) of proposed solutions on |

| Program Outcomes | Performance Indicators |
|---|---|
| | society (individual, local, regional or global context) <ul style="list-style-type: none"> • Choose the best engineering solution that will have the best impact on the society. • Criticize/ justify the effects of engineering solutions to a given problem. |
| 13. Recognize the need for and engage in life-long learning | <ul style="list-style-type: none"> • Aware of the need for life-long learning • Engaged in life-long learning activities |
| 14. Know, articulate, and discuss contemporary issues and development in the specific field of practice | <ul style="list-style-type: none"> • Identify and relate in a variety of contemporary issues or topic • Discuss technical issues relevant to field of practices • Design the appropriate technique that can be applied in assessing the interrelationships of the cited contemporary issues |
| 15. Apply techniques, skills, and modern engineering tools necessary for engineering practice | <ul style="list-style-type: none"> • Utilize problem solving and design techniques/methods in their discipline. • Solve problems using current software used in the discipline. • Utilize the available hardware/equipment used in the discipline |
| 16. Apply knowledge of engineering and management principles as a member and leader of a team, and to manage projects in a multi-disciplinary environment | <ul style="list-style-type: none"> • Understand the fundamentals of team dynamics and leadership • Function as an effective member or leader of diverse engineering teams and earn the trust and confidence of colleagues through competent and timely completion of tasks • Recognize the value of alternative and various viewpoints, and to know the importance of professional networking from other team members • Confidently pursue and discern expert assistance and professional advice from other members • Take initiative and fulfill the leadership role, while respecting the agreed roles of others |
| 17. Infer at least one specialized field of computer engineering practice | <ul style="list-style-type: none"> • Identify and relate in a variety of specialized fields of Computer Engineering practice. • Discuss technical issues relevant to fields of practice. • Design the appropriate technique that can be applied in assessing the inter-relationships of the cited specialized fields of Computer Engineering practice. |

| Program Outcomes | Performance Indicators |
|--|---|
| 18. Manifest competencies supporting national, regional or local development plans | <ul style="list-style-type: none"> • Use appropriate technique/s that can be applied in developing a project for national, regional, or local consumption. • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available. • Develop technology-based project for national, regional, or local consumption. |

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Program Educational Objectives

Three to five years after graduation, the BS Electrical Engineering (BSEE) alumni shall:

1. Advance their practice in the field of electrical engineering;
2. Assume at least a supervisory position in the same or related field of endeavor;
3. Manifest proper ethical principles and values founded in Filipino, Dominican and Christian orientation;
4. Contribute goodwill in the country and other nations; and
Pursue advance education and professional training activities to become world class professionals.

Program Outcomes and Performance Indicators

Upon completion of BS Electrical Engineering (BSEE), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|---|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 3. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 4. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship |

| Program Outcomes | Performance Indicators |
|---|--|
| | <ul style="list-style-type: none"> • Participate actively in the community's spiritual and social advocacy or extension program |
| <p>5. Apply knowledge of mathematics and science to solve complex mechanical engineering problems</p> | <ul style="list-style-type: none"> • Analyze the parameters from the given data that are needed in solving the problem • Formulate the needed equation in solving the problem • Develop the procedure in solving the problem • Apply the appropriate mathematical tools in solving the problem |
| <p>6. Develop and conduct experiments, as well as to analyze and interpret data</p> | <ul style="list-style-type: none"> • Define objectives of the experiment • Collect sufficient and appropriate data to support the objectives of the experiment • Analyze data using appropriate methods • Relate data analysis to the objectives of the experiment • Draw out appropriate or reasonable conclusions |
| <p>7. Design a system, component, or process to meet desired needs within realistic constraints, in accordance with standards</p> | <ul style="list-style-type: none"> • Gather information on relevant fundamentals, theory / concepts, similar existing systems (demonstrate technical competence) • Define the problem and identify the design constraints, which may include economic, environmental, political, ethical, and health and safety constraints • Define functional requirements for the design (specific required actions necessary for the design to be achieved) • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available • Systematically present the designed system, component, or process |
| <p>8. Work/Function effectively and independently in multi-disciplinary and multi-cultural teams</p> | <ul style="list-style-type: none"> • Perform independently and cooperatively to accomplish worthwhile goals • Fulfill team role's duties as a member in any kind of group project or activity • Fulfill team role's duties as a member leader in any kind of group project or activity • Share in a team-based work |
| <p>9. Identify, formulate, and solve complex electrical engineering problems</p> | <ul style="list-style-type: none"> • Identify problem/s in a community that requires expertise in mechanical engineering based on needs assessment • Formulate problem statement, objectives, scope, and limitations, and identify resources required to solve the problems • Provide technical solution/s to the problem that is acceptable to the stakeholders |

| Program Outcomes | Performance Indicators |
|---|---|
| | <ul style="list-style-type: none"> • Demonstrate the use of appropriate modern tools to solve the problems |
| 10. Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none"> • Apply professional standards (use of handbooks, codes, standards) in obtaining, reporting, analyzing data or in crafting design. • Demonstrate high academic standards, personal responsibilities, and exercise good judgment and discretion. • Immerse in an actual working environment in industry • Evaluate the ethical and societal implications of a design solution to problem in electrical engineering |
| 11. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Organize presentation/reports in well-structured logical sequence, making it easy for audience/reader to follow clearly the content • Convey positive Filipino values in one's decisions and actions • Present a proposed solution in class or in a public forum • Defend satisfactorily his/her thesis/design project from a panel of experts |
| 12. Identify and analyze the impact of electrical engineering solutions in a global, economic, environmental, and societal context | <ul style="list-style-type: none"> • Investigate a given engineering problem and propose related solutions • Analyze the short and long term impact (political, economic, environmental, health and safety, cultural) of proposed solutions on society (individual, local, regional or global context) • Choose the best engineering solution that will have the best impact on the society. • Criticize/ justify the effects of engineering solutions to a given problem. |
| 13. Recognize the need for, and engage in life-long learning | <ul style="list-style-type: none"> • Aware of the need for life-long learning • Engaged in life-long learning activities |
| 14. Know, articulate, and discuss contemporary issues and development in the specific field of practice | <ul style="list-style-type: none"> • Identify and relate in a variety of contemporary issues or topic • Discuss technical issues relevant to field of practices • Design the appropriate technique that can be applied in assessing the interrelationships of the cited contemporary issues |
| 15. Apply techniques, skills, and modern engineering tools necessary for engineering practice | <ul style="list-style-type: none"> • Utilize problem solving and design techniques/methods in their discipline. |

| Program Outcomes | Performance Indicators |
|--|---|
| | <ul style="list-style-type: none"> • Solve problems using current software used in the discipline. • Utilize the available hardware/equipment used in the discipline |
| <p>16. Apply knowledge of engineering and management principles as a member and leader of a team, and to manage projects in a multi-disciplinary environment</p> | <ul style="list-style-type: none"> • Understand the fundamentals of team dynamics and leadership • Function as an effective member or leader of diverse engineering teams and earn the trust and confidence of colleagues through competent and timely completion of tasks • Recognize the value of alternative and various viewpoints, and to know the importance of professional networking from other team members • Confidently pursue and discern expert assistance and professional advice from other members • Take initiative and fulfill the leadership role, while respecting the agreed roles of others |
| <p>17. Infer at least one specialized field of electrical engineering practice</p> | <ul style="list-style-type: none"> • Identify and relate in a variety of Electrical Engineering practice. • Discuss technical issues relevant to fields of practice. • Design the appropriate technique that can be applied in assessing the inter-relationships of the cited specialized fields of Electrical Engineering practice. |
| <p>18. Manifest competencies supporting national, regional or local development plans</p> | <ul style="list-style-type: none"> • Use appropriate technique/s that can be applied in developing a project for national, regional, or local consumption. • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available. • Develop technology-based project for national, regional, or local consumption. |

BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING

Program Educational Objectives

Three to five years after graduation, the BS Electronics Engineering (BSEcE) alumni shall:

1. Advance their practice in the field of electronics engineering;
2. Assume at least a supervisory position in the same or related field of endeavor;
3. Manifest proper ethical principles and values founded in Filipino, Dominican and Christian orientation;
4. Contribute goodwill in the country and other nations; and

- Pursue advance education and professional training activities to become world class professionals.

Program Outcomes and Performance Indicators

Upon completion of BS Electronics Engineering (BSEcE), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> Engage in continual learning in one's specialization |
| 2. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> Demonstrate responsible Filipino citizenship in local, national or international communities |
| 3. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> Plan and take action for the welfare of the community Continually engage oneself in development projects and activities that address the community needs |
| 4. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> Observe the Dominican values of study, prayer, community, and service Uphold ecological consciousness and engage in environmental stewardship Participate actively in the community's spiritual and social advocacy or extension program |
| 5. Apply knowledge of mathematics and science to solve complex mechanical engineering problems | <ul style="list-style-type: none"> Analyze the parameters from the given data that are needed in solving the problem Formulate the needed equation in solving the problem Develop the procedure in solving the problem Apply the appropriate mathematical tools in solving the problem |
| 6. Develop and conduct experiments, as well as to analyze and interpret data | <ul style="list-style-type: none"> Define objectives of the experiment Collect sufficient and appropriate data to support the objectives of the experiment Analyze data using appropriate methods Relate data analysis to the objectives of the experiment Draw out appropriate or reasonable conclusions |
| 7. Design a system, component, or process to meet desired needs within realistic constraints, in accordance with standards | <ul style="list-style-type: none"> Gather information on relevant fundamentals, theory / concepts, similar existing systems (demonstrate technical competence) Define the problem and identify the design constraints, which may include economic, |

| Program Outcomes | Performance Indicators |
|---|---|
| | environmental, political, ethical, and health and safety constraints <ul style="list-style-type: none"> • Define functional requirements for the design (specific required actions necessary for the design to be achieved) • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available • Systematically present the designed system, component, or process |
| 8. Work/Function effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform independently and cooperatively to accomplish worthwhile goals • Fulfill team role's duties as a member in any kind of group project or activity • Fulfill team role's duties as a member leader in any kind of group project or activity • Share in a team-based work |
| 9. Identify, formulate, and solve complex electronics engineering problems | <ul style="list-style-type: none"> • Identify problem/s in a community that requires expertise in electronics engineering based on needs assessment • Formulate problem statement, objectives, scope, and limitations, and identify resources required to solve the problems • Provide technical solution/s to the problem that is acceptable to the stakeholders • Demonstrate the use of appropriate modern tools to solve the problems |
| 10. Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none"> • Apply professional standards (use of handbooks, codes, standards) in obtaining, reporting, analyzing data or in crafting design. • Demonstrate high academic standards, personal responsibilities, and exercise good judgment and discretion. • Immerse in an actual working environment in industry • Evaluate the ethical and societal implications of a design solution to problem in electronics engineering |
| 11. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Organize presentation/reports in well-structured logical sequence, making it easy for audience/reader to follow clearly the content • Convey positive Filipino values in one's decisions and actions • Present a proposed solution in class or in a public forum |

| Program Outcomes | Performance Indicators |
|--|---|
| | <ul style="list-style-type: none"> • Defend satisfactorily his/her thesis/design project from a panel of experts |
| <p>12. Identify and analyze the impact of electronics engineering solutions in a global, economic, environmental, and societal context</p> | <ul style="list-style-type: none"> • Investigate a given engineering problem and propose related solutions • Analyze the short and long term impact (political, economic, environmental, health and safety, cultural) of proposed solutions on society (individual, local, regional or global context) • Choose the best engineering solution that will have the best impact on the society. • Criticize/ justify the effects of engineering solutions to a given problem. |
| <p>13. Recognize the need for, and engage in life-long learning</p> | <ul style="list-style-type: none"> • Aware of the need for life-long learning • Engaged in life-long learning activities |
| <p>14. Know, articulate, and discuss contemporary issues and development in the specific field of practice</p> | <ul style="list-style-type: none"> • Identify and relate in a variety of contemporary issues or topic • Discuss technical issues relevant to field of practices • Design the appropriate technique that can be applied in assessing the interrelationships of the cited contemporary issues |
| <p>15. Apply techniques, skills, and modern engineering tools necessary for engineering practice</p> | <ul style="list-style-type: none"> • Utilize problem solving and design techniques/methods in their discipline. • Solve problems using current software used in the discipline. • Utilize the available hardware/equipment used in the discipline |
| <p>16. Apply knowledge of engineering and management principles as a member and leader of a team, and to manage projects in a multi-disciplinary environment</p> | <ul style="list-style-type: none"> • Understand the fundamentals of team dynamics and leadership • Function as an effective member or leader of diverse engineering teams and earn the trust and confidence of colleagues through competent and timely completion of tasks • Recognize the value of alternative and various viewpoints, and to know the importance of professional networking from other team members • Confidently pursue and discern expert assistance and professional advice from other members • Take initiative and fulfill the leadership role, while respecting the agreed roles of others |
| <p>17. Infer at least one specialized field of electronics engineering practice</p> | <ul style="list-style-type: none"> • Identify and relate in a variety of specialized fields of Electronics Engineering practice. • Discuss technical issues relevant to fields of practice. • Design the appropriate technique that can be applied in assessing the inter-relationships of |

| Program Outcomes | Performance Indicators |
|--|---|
| | the cited specialized fields of Electronics Engineering practice. |
| 18. Manifest competencies supporting national, regional or local development plans | <ul style="list-style-type: none"> • Use appropriate technique/s that can be applied in developing a project for national, regional, or local consumption. • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available. • Develop technology-based project for national, regional, or local consumption. |

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Program Educational Objectives

Three to five years after graduation, the BS Industrial Engineering (BSIE) alumni shall:

1. Advance their practice in the field of industrial engineering;
2. Assume at least a supervisory position in the same or related field of endeavor;
3. Manifest proper ethical principles and values founded in Filipino, Dominican and Christian orientation;
4. Contribute goodwill in the country and other nations; and
5. Pursue advance education and professional training activities to become world class professionals.

Program Outcomes and Performance Indicators

Upon completion of BS Industrial Engineering (BSIE), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|---|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 3. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 4. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship |

| Program Outcomes | Performance Indicators |
|--|--|
| | <ul style="list-style-type: none"> • Participate actively in the community's spiritual and social advocacy or extension program |
| 5. Apply knowledge of mathematics and science to solve complex industrial engineering problems | <ul style="list-style-type: none"> • Analyze the parameters from the given data that are needed in solving the problem • Formulate the needed equation in solving the problem • Develop the procedure in solving the problem • Apply the appropriate mathematical tools in solving the problem |
| 6. Develop and conduct experiments, as well as to analyze and interpret data | <ul style="list-style-type: none"> • Define objectives of the experiment • Collect sufficient and appropriate data to support the objectives of the experiment • Analyze data using appropriate methods • Relate data analysis to the objectives of the experiment • Draw out appropriate or reasonable conclusions |
| 7. Design a system, component, or process to meet desired needs within realistic constraints, in accordance with standards | <ul style="list-style-type: none"> • Gather information on relevant fundamentals, theory / concepts, similar existing systems (demonstrate technical competence) • Define the problem and identify the design constraints, which may include economic, environmental, political, ethical, and health and safety constraints • Define functional requirements for the design (specific required actions necessary for the design to be achieved) • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available • Systematically present the designed system, component, or process |
| 8. Work/Function effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform independently and cooperatively to accomplish worthwhile goals • Fulfill team role's duties as a member in any kind of group project or activity • Fulfill team role's duties as a member leader in any kind of group project or activity • Share in a team-based work |
| 9. Identify, formulate, and solve complex industrial engineering problems | <ul style="list-style-type: none"> • Identify problem/s in a community that requires expertise in mechanical engineering based on needs assessment • Formulate problem statement, objectives, scope, and limitations, and identify resources required to solve the problems • Provide technical solution/s to the problem that is acceptable to the stakeholders • Demonstrate the use of appropriate modern tools to solve the problems |

| Program Outcomes | Performance Indicators |
|---|---|
| 10. Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none"> • Apply professional standards (use of handbooks, codes, standards) in obtaining, reporting, analyzing data or in crafting design. • Demonstrate high academic standards, personal responsibilities, and exercise good judgment and discretion. • Immerse in an actual working environment in industry • Evaluate the ethical and societal implications of a design solution to problem in industrial engineering |
| 11. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Organize presentation/reports in well-structured logical sequence, making it easy for audience/reader to follow clearly the content • Convey positive Filipino values in one's decisions and actions • Present a proposed solution in class or in a public forum • Defend satisfactorily his/her thesis/design project from a panel of experts |
| 12. Identify and analyze the impact of industrial engineering solutions in a global, economic, environmental, and societal context | <ul style="list-style-type: none"> • Investigate a given engineering problem and propose related solutions • Analyze the short and long term impact (political, economic, environmental, health and safety, cultural) of proposed solutions on society (individual, local, regional or global context) • Choose the best engineering solution that will have the best impact on the society. • Criticize/ justify the effects of engineering solutions to a given problem. |
| 13. Recognize the need for and engage in life-long learning | <ul style="list-style-type: none"> • Aware of the need for life-long learning • Engaged in life-long learning activities |
| 14. Know, articulate, and discuss contemporary issues and development in the specific field of practice | <ul style="list-style-type: none"> • Identify and relate in a variety of contemporary issues or topic • Discuss technical issues relevant to field of practices • Design the appropriate technique that can be applied in assessing the interrelationships of the cited contemporary issues |
| 15. Apply techniques, skills, and modern engineering tools necessary for engineering practice | <ul style="list-style-type: none"> • Utilize problem solving and design techniques/methods in their discipline. • Solve problems using current software used in the discipline. • Utilize the available hardware/equipment used in the discipline |

| Program Outcomes | Performance Indicators |
|--|---|
| <p>16. Apply knowledge of engineering and management principles as a member and leader of a team, and to manage projects in a multi-disciplinary environment</p> | <ul style="list-style-type: none"> • Understand the fundamentals of team dynamics and leadership • Function as an effective member or leader of diverse engineering teams and earn the trust and confidence of colleagues through competent and timely completion of tasks • Recognize the value of alternative and various viewpoints, and to know the importance of professional networking from other team members • Confidently pursue and discern expert assistance and professional advice from other members • Take initiative and fulfill the leadership role, while respecting the agreed roles of others |
| <p>17. Infer at least one specialized field of industrial engineering practice</p> | <ul style="list-style-type: none"> • Identify and relate in a variety of specialized fields of Industrial Engineering practice. • Discuss technical issues relevant to fields of practice. • Design the appropriate technique that can be applied in assessing the inter-relationships of the cited specialized fields of Industrial Engineering practice. |
| <p>18. Manifest competencies supporting national, regional or local development plans</p> | <ul style="list-style-type: none"> • Use appropriate technique/s that can be applied in developing a project for national, regional, or local consumption. • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available. • Develop technology-based project for national, regional, or local consumption. |
| <p>19. Design, develop, implement, and improve integrated systems that include people, materials, information, equipment, and energy</p> | <ul style="list-style-type: none"> • Use principles of engineering and management to integrate systems that include people, materials, information, equipment and energy • Analyze company processes and systems and recommend improvements on quality and productivity • Perform time and motion studies of workers, set standards of work performance, and propose new and improved work methods to increase productivity • Employ quality control techniques to reduce waste and customer complaints • Use statistical procedures to establish reasonable tolerances in quality and develop procedures for making routine checks of product quality • Seek ways to reduce costs without compromising product quality |

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Program Educational Objectives

Three to five years after graduation, the BS Civil Engineering (BSCE) alumni shall:

1. Advance their practice in the field of civil engineering;
2. Assume at least a supervisory position in the same or related field of endeavor;
3. Manifest proper ethical principles and values founded in Filipino, Dominican and Christian orientation;
4. Contribute goodwill in the country and other nations; and
5. Pursue advance education and professional training activities to become world class professionals.

Program Outcomes and Performance Indicators

Upon completion of BS Civil Engineering (BSCE), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice. | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 3. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 4. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship • Participate actively in the community's spiritual and social advocacy or extension program |
| 5. Apply knowledge of mathematics and science to solve complex civil engineering problems | <ul style="list-style-type: none"> • Analyze the parameters from the given data that are needed in solving the problem • Formulate the needed equation in solving the problem • Develop the procedure in solving the problem • Apply the appropriate mathematical tools in solving the problem |
| 6. Develop and conduct experiments, as well as to analyze and interpret data | <ul style="list-style-type: none"> • Define objectives of the experiment • Collect sufficient and appropriate data to support the objectives of the experiment • Analyze data using appropriate methods |

| Program Outcomes | | Performance Indicators |
|------------------|---|--|
| | | <ul style="list-style-type: none"> • Relate data analysis to the objectives of the experiment • Draw out appropriate or reasonable conclusions |
| 7. | Design a system, component, or process to meet desired needs within realistic constraints, in accordance with standards | <ul style="list-style-type: none"> • Gather information on relevant fundamentals, theory / concepts, similar existing systems (demonstrate technical competence) • Define the problem and identify the design constraints, which may include economic, environmental, political, ethical, and health and safety constraints • Define functional requirements for the design (specific required actions necessary for the design to be achieved) • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available • Systematically present the designed system, component, or process |
| 8. | Work/Function effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform independently and cooperatively to accomplish worthwhile goals • Fulfill team role's duties as a member in any kind of group project or activity • Fulfill team role's duties as a member leader in any kind of group project or activity • Share in a team-based work |
| 9. | Identify, formulate, and solve complex civil engineering problems | <ul style="list-style-type: none"> • Identify problem/s in a community that requires expertise in mechanical engineering based on needs assessment • Formulate problem statement, objectives, scope, and limitations, and identify resources required to solve the problems • Provide technical solution/s to the problem that is acceptable to the stakeholders • Demonstrate the use of appropriate modern tools to solve the problems |
| 10. | Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none"> • Apply professional standards (use of handbooks, codes, standards) in obtaining, reporting, analyzing data or in crafting design. • Demonstrate high academic standards, personal responsibilities, and exercise good judgment and discretion. • Immerse in an actual working environment in industry • Evaluate the ethical and societal implications of a design solution to problem in civil engineering |
| 11. | Effectively communicate orally and in writing using English, Filipino, mother tongue | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation |

| Program Outcomes | Performance Indicators |
|---|---|
| language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Organize presentation/reports in well-structured logical sequence, making it easy for audience/reader to follow clearly the content • Convey positive Filipino values in one's decisions and actions • Present a proposed solution in class or in a public forum • Defend satisfactorily his/her thesis/design project from a panel of experts |
| 12. Identify and analyze the impact of civil engineering solutions in a global, economic, environmental, and societal context | <ul style="list-style-type: none"> • Investigate a given engineering problem and propose related solutions • Analyze the short and long term impact (political, economic, environmental, health and safety, cultural) of proposed solutions on society (individual, local, regional or global context) • Choose the best engineering solution that will have the best impact on the society. • Criticize/ justify the effects of engineering solutions to a given problem. |
| 13. Recognize the need for and engage in life-long learning | <ul style="list-style-type: none"> • Aware of the need for life-long learning • Engaged in life-long learning activities |
| 14. Know, articulate, and discuss contemporary issues and development in the specific field of practice | <ul style="list-style-type: none"> • Identify and relate in a variety of contemporary issues or topic • Discuss technical issues relevant to field of practices • Design the appropriate technique that can be applied in assessing the interrelationships of the cited contemporary issues |
| 15. Apply techniques, skills, and modern engineering tools necessary for engineering practice | <ul style="list-style-type: none"> • Utilize problem solving and design techniques/methods in their discipline • Solve problems using current software used in the discipline • Utilize the available hardware/equipment used in the discipline |
| 16. Apply knowledge of engineering and management principles as a member and leader of a team, and to manage projects in a multi-disciplinary environment | <ul style="list-style-type: none"> • Understand the fundamentals of team dynamics and leadership • Function as an effective member or leader of diverse engineering teams and earn the trust and confidence of colleagues through competent and timely completion of tasks • Recognize the value of alternative and various viewpoints, and to know the importance of professional networking from other team members • Confidently pursue and discern expert assistance and professional advice from other members |

| Program Outcomes | Performance Indicators |
|--|---|
| | <ul style="list-style-type: none"> • Take initiative and fulfill the leadership role, while respecting the agreed roles of others= |
| 17. Infer at least one specialized field of civil engineering practice | <ul style="list-style-type: none"> • Identify and relate in a variety of specialized fields of Civil Engineering practice. • Discuss technical issues relevant to fields of practice. • Design the appropriate technique that can be applied in assessing the inter-relationships of the cited specialized fields of Civil Engineering practice. |
| 18. Manifest competencies supporting national, regional or local development plans | <ul style="list-style-type: none"> • Use appropriate technique/s that can be applied in developing a project for national, regional, or local consumption. • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available. • Develop technology-based project for national, regional, or local consumption. |

BACHELOR OF SCIENCE IN ARCHITECTURE

Program Educational Objectives

Three to five years after graduation, the BS Architecture (BS Archi) alumni shall:

1. Perform standard competencies in accordance with the scope of the global and local practice of architecture;
2. Show traits of professionalism, sense of responsibility, equality, and patriotism;
3. Receptiveness to new ideas and knowledge through scientific research;
4. Direct and focus the thrust of architecture education to the needs and demands of society and its integration into the social, economic, cultural and environmental aspects of nation building; and
5. Instill understanding of the basic philosophy and fundamental principles of the multi-dimensional aspects of architecture, and the direct relationship between man and his environment.

Program Outcomes and Performance Indicators

Upon completion of BS Architecture (BS Archi), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |

| Program Outcomes | Performance Indicators |
|--|---|
| 2. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Convey positive Filipino values in one's decisions and actions • Present a proposed solution in class or in a public forum • Defend satisfactorily his/her thesis/design project from a panel of experts |
| 3. Work effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform independently and cooperatively to accomplish worthwhile goals • Fulfill team role's duties as a member in any kind of group project or activity • Fulfill team role's duties as a member leader in any kind of group project or activity • Share in a team-based work |
| 4. Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none"> • Maintain stature and behavior that uphold the Professional Code of Ethics • Immerse in an actual working environment in industry • Evaluate the ethical and societal implications of a design solution to problem in architecture |
| 5. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 6. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 7. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship • Participate actively in the community's spiritual and social advocacy or extension program |
| 8. Create architectural solutions by applying knowledge in history, theory, planning, building technology and utilities, structural concepts and professional practice | <ul style="list-style-type: none"> • Conceptualize design development outputs • Assess the client's needs, opportunities, and constraints • Develop and/or review a program with the client • Develop and vision and goals for the project • Develop client's design standards and guidelines • Establish sustainability goals for the project • Define the scope of the pre-design services • Develop or review master plan • Establish requirements of site survey(s) • Review site survey(s) |

| Program Outcomes | Performance Indicators |
|---|---|
| | <ul style="list-style-type: none"> • Review geotechnical and hydrological conditions • Evaluate and compare alternative sites • Perform site analysis • Assess environmental, social, and economic conditions related to the project • Document and evaluate existing conditions • Identify requirements of regulatory agencies • Prepare and present submittals for governmental approval • Perform code analyses (e.g. building, energy, accessibility) |
| <p>9. Prepare contract documents, technical reports and other legal documents used in architectural practice adhering to applicable laws, standards and regulations</p> | <ul style="list-style-type: none"> • Prepare complete sets of contract document • Perform code analyses (e.g. building, energy, accessibility) • Review project with code officials • Submit documents to approval agencies and obtain approvals • Prepare specifications based on performance criteria • Research, select, and specify materials • Prepare specifications based on performance criteria |
| <p>10. Use concepts and principles from specialized fields and allied disciplines into various architectural problems</p> | <ul style="list-style-type: none"> • Incorporate specialized fields and allied disciplines in the preparation of contract documents • Identify requirements of regulatory agencies • Prepare and present submittals for governmental approval • Analyze and design basic structural elements and systems • Coordinate building systems (e.g. structural, mechanical, fire safety, electrical, security, telecommunications/data and reconcile systems' conflicts) • Apply sustainable design principles |
| <p>11. Interpret and apply relevant laws, codes, charters and standards of architecture and the built environment</p> | <ul style="list-style-type: none"> • Apply relevant laws, codes, charters, and standards of architecture and the built environment in the preparation of contract documents • Perform code analyses (e.g. building, energy, accessibility) • Review project with code officials • Submit documents to approval agencies and obtain approvals |
| <p>12. Apply research methods to address architectural problems</p> | <ul style="list-style-type: none"> • Relate results of research in architectural design |
| <p>13. Use various information and communication technology (ICT) media for architectural</p> | <ul style="list-style-type: none"> • Use multimedia techniques |

| Program Outcomes | Performance Indicators |
|--|---|
| solutions, presentation, and techniques in design and construction | |
| 14. Acquire entrepreneurial and business acumen relevant to Architecture practice | <ul style="list-style-type: none"> • Understand architectural office processes/practices • Prepare basic feasibility studies • Obtain and maintain professional and business licenses • Manage project revenues and expenses • Calculate hourly billing rates • Negotiate and establish fees for basic and additional services and reimbursable expenses • Develop and manage positive client relationships • Develop leadership skills to enable successful practice • Identify and articulate leadership traits required to maintain a successful and healthy office environment in an architecture firm • Contribute talents in a community-based organization to improve the quality of life |
| 15. Be involve in management of the construction works and building administration | <ul style="list-style-type: none"> • Assist in the construction supervision works • Perform or review a feasibility study to determine the cost and/or technical advisability of a proposed project • Establish preliminary project scope, budget, and schedule • Prepare and/or evaluate estimates of probable construction costs • Perform value engineering of selected building elements • Perform life cycle cost analysis of selected building elements • Respond to Requests for Information (RFI) • Conduct on-site observations • Document and communicate status to owner and constructor • Resolve constructability issues • Issue Architect's Supplemental Instructions (ASI) • Process shop drawings and submittals • Process change orders • Review and certify contractor's application for payment • Review material test reports • Record changes to the contract documents • Provide substantial and final completion services |

| Program Outcomes | Performance Indicators |
|---|--|
| | <ul style="list-style-type: none"> • Prepare and manage design contracts (owner/architect) • Prepare and manage professional services contracts (architect/consultant) • Select, manage, and coordinate consultants • Partner with the owner's project delivery team • Prepare and manage design team schedule and budget (consultant and staff costs) • Obtain client authorization to proceed per contract phases • Document project status and progress • Monitor project construction costs • Prepare owner/contractor agreement • Conduct post-occupancy evaluation • Identify the project design team members and their required scope of services, roles, and their responsibilities (e.g. architects, engineers, specialty consultants) • Identify the project delivery team's roles and responsibilities (e.g. owner, architect, contractor, program manager) • Identify project delivery method |
| <p>16. Manifest competencies supporting national, regional or local development plans</p> | <ul style="list-style-type: none"> • Use appropriate technique/s that can be applied in developing a project for national, regional, or local consumption. • Perform preliminary and detailed design that satisfies all the requirements, maximizing the resources available. • Develop technology-based project for national, regional, or local consumption. |

SCHOOL OF NURSING

School Logo



Vision

The School of Nursing envisions itself as a Center of Development providing globally competitive nursing education.

Mission

The School of Nursing of the Colegio de San Juan de Letran commits itself to provide quality nursing education with Filipino and Dominican Orientation, within the context of human development and quality of life.

Quality Objectives

1. To produce graduates who are professionally competent and socially responsible in their area of specialization thru quality nursing education.
2. To ensure that all faculty, employees, and students are integrally formed and highly discipline-individuals as well as contributive members of the Colegio and society at large.
3. To establish linkages with other national and international institutions and agencies – government and non-government, and communities for the theoretical and Related Learning Experiences (RLE) of the students and the placement of its alumni.
4. To actively participate in the research activities and utilization of research findings in the Colegio and health care institutions.
5. To participate in the programs and services of the Colegio for community development.

ACADEMIC PROGRAM

BACHELOR OF SCIENCE IN NURSING

Program Educational Objectives

Three to five years after graduation, the Bachelor of Science in Nursing (BSN) alumni shall:

1. Effectively work in collaboration with healthcare providers to cater various clientele in any healthcare setting as competent beginning nurse clinicians;
2. Generate new knowledge and apply evidenced-based practice in the delivery of quality nursing care for improved client care as proficient nurse researcher; and
3. Lead health and health-related teams, programs, and services as model nurse managers.

Program Outcomes and Performance Indicators

Upon completion of the Bachelor of Science in Nursing program, the graduate who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian, in orientation must be able to:

| Program Outcomes | Performance Indicators |
|--|---|
| 1. Apply knowledge of physical, social, natural and health sciences and humanities in the practice of nursing | <ul style="list-style-type: none">• Integrate relevant principles of social, physical, natural and health sciences and humanities in a given health and nursing situation• Apply appropriate nursing concepts and actions holistically and comprehensively |
| 2. Provide safe, appropriate, and holistic care to individuals, families, population groups, and community utilizing nursing process | <ul style="list-style-type: none">• Assess with the client (individual, family, population group, and/or community), one's health status/competence• Formulate with the client a plan of care to address the health conditions, needs, problems and issues based on priorities• Implement safe and quality interventions with the client to address the health needs, problems and issues• Provide health education using selected planning models to targeted clientele (individuals, family, population group or community)• Evaluate with the client the health status/competence and /or process/expected outcomes of nurse-client working relationship |

| Program Outcomes | Performance Indicators |
|--|--|
| | <ul style="list-style-type: none"> • Institute appropriate corrective actions to prevent or minimize harm arising from adverse effects |
| <p>3. Apply guidelines and principles of evidence- based practice in the delivery of care</p> | <ul style="list-style-type: none"> • Provide appropriate evidence based nursing care using a participatory approach based on: <ul style="list-style-type: none"> ✓ variety of theories and standards; ✓ relevant to health and healing research; ✓ clinical practice; ✓ client preferences; ✓ client and staff safety; and ✓ customer-care standards |
| <p>4. Practice nursing in accordance with existing laws, legal, ethical, and moral principles</p> | <ul style="list-style-type: none"> • Adhere to ethico-legal considerations when providing safe, quality and professional nursing care. • Apply ethical reasoning and decision-making process to address situations of ethical distress and moral dilemma • Adhere to established norms of conduct based on the Philippine Nursing Law and other legal, regulatory and institutional requirements relevant to safe nursing practice • Protect clients rights based on "Patient's Bill of Rights and Obligations" • Implement strategies/policies related to Informed consent as it applies in multiple contexts • Maintain stature and behavior that uphold the Professional Code of Ethics • Immerse in an actual working environment in hospitals and related fields |
| <p>5. Communicate effectively in speaking, writing, and presenting using culturally appropriate language</p> | <ul style="list-style-type: none"> • Ensure a working relationship with the client and/or support system based on trust, respect, and shared decision-making using appropriate communication/interpersonal techniques/strategies • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Convey positive Filipino values in one's decisions and actions |

| Program Outcomes | Performance Indicators |
|--|--|
| | <ul style="list-style-type: none"> • Defend satisfactorily his/her thesis from a panel of experts |
| <p>6. Document client care accurately and comprehensively</p> | <ul style="list-style-type: none"> • Document client's responses /nursing care services rendered and processes/outcomes of the nurse client working relationship • Ensure completeness, integrity, safety, accessibility and security of information • Adhere to protocol and principles of confidentiality in safekeeping and releasing of records and other information |
| <p>7. Work effectively in collaboration with inter-, intra-, and multi-disciplinary and multi-cultural teams</p> | <ul style="list-style-type: none"> • Ensure intra-agency, inter-agency, multidisciplinary and sectoral collaboration in the delivery of health care • Implement strategies/approaches to enhance/support the capability of the client and care providers to participate in decision making by the inter-professional team • Maintain a harmonious and collegial relationship among members of the health team for effective, efficient and safe client care • Coordinate the tasks/functions of other nursing personnel (midwife, BHW and utility worker) • Collaborate with other members of the health team in the implementation of programs and services • Apply principles of partnership and collaboration to improve delivery of health services • Collaborate with GOs, NGOs and other socio-civic agencies to improve health care services, support environment protection policies and strategies, and safety and security mechanisms in the community • Participate as a member of a quality team in implementing the appropriate quality improvement process on identified improvement opportunities • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals |

| Program Outcomes | Performance Indicators |
|---|---|
| <p>8. Practice beginning management and leadership skills in the delivery of client care using systems approach</p> | <ul style="list-style-type: none"> • Participate in the development and improvement of policies and standards regarding safe nursing practice and relevant to human resource management • Manage resources (human, physical, financial, time) efficiency and effectively • Apply management and leadership principles in providing direction to manage a community/village- based • Use appropriate strategies/approaches to plan community health programs and nursing service • Supervise the implementation of the nursing component of the health services/programs • Ensure that all nursing personnel adhere to standards of safety, bioethical principles and evidence based nursing practice • Evaluate specific components of health programs and nursing services based on parameters/criteria • Maintain a positive practice environment • Participate in the planning and implementation of staff development activities to enhance performance of nursing support staff • Evaluate performance of nursing support staff using a standard evaluation tool |
| <p>9. Conduct research with an experienced researcher</p> | <ul style="list-style-type: none"> • Participate in preparing a research proposal complying with the ethical principles in nursing research • Conduct a research study as a member of a research team • Determine if the research problems/questions, learning outcomes and /or hypotheses are clearly and logically linked to the research purpose, concepts and relationships, and propositions generated from the study framework • Analyze if the conceptual framework the summary of review of related literature, research design, and data analysis procedure are logically linked with the |

| Program Outcomes | Performance Indicators |
|---|--|
| | <p>research purpose, problems/questions, and hypotheses</p> <ul style="list-style-type: none"> • Establish if the interpretation, implications, and recommendations are consistent with the results considering the limitations of the study • Analyze the research study/report for adherence to standards of writing mechanics, ethical principles and guidelines in all phases of the research study • Present the research study conducted in partnership with a research team |
| <p>10. Engage in lifelong learning with a passion to keep current with national and global developments in general, and nursing and health developments in particular</p> | <ul style="list-style-type: none"> • Assume responsibility for lifelong learning, own personal development and maintenance of competence • Demonstrate continued competence and professional growth • Engage in advocacy activities to influence health and social care service policies and access to services • Model professional behavior • Engage in advocacy activities to deal with health related concerns and adopts policies that foster the growth and development of the nursing profession |
| <p>11. Demonstrate responsible citizenship and pride in being a Filipino</p> | <ul style="list-style-type: none"> • Exemplify love for country in service of the Filipinos • Customize nursing interventions based on Philippine culture and values • Demonstrate responsible Filipino citizenship in local, national or international communities |
| <p>12. Apply techno-intelligent care systems and processes in health care delivery</p> | <ul style="list-style-type: none"> • Use appropriate technology to perform safe and efficient nursing activities • Implement system of informatics to support the delivery of health care |
| <p>13. Uphold the nursing core values in the practice of the profession</p> | <ul style="list-style-type: none"> • Demonstrate caring as the core of nursing, love God, love of country and love of people • Manifest professionalism, integrity and excellence • Project the positive professional image of a Filipino Nurse |

| Program Outcomes | Performance Indicators |
|--|--|
| 14. Apply entrepreneurial skills in the delivery of nursing care | <ul style="list-style-type: none"> • Identify opportunities for entrepreneurial nursing practice • Apply strategic interventions to address health-related concerns of individuals, families, communities and population groups to any health care setting |
| 15. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 16. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 17. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship • Participate actively in the community's spiritual and social advocacy or extension program |

SCHOOL OF COMPUTER STUDIES AND TECHNOLOGY

School Logo



Vision

The School of Computer Studies and Technology envisions itself as Center of Development in Information Technology Education by year 2019, sustaining its commitment through producing faith-centered, competitive, and well equipped students.

Mission

The school commits itself to holistically develop students' ICT computing skills and other stakeholders' professional competencies for their productive careers that will continuously contribute to the development of the country through technological leadership that is Filipino, Dominican, and Christian orientation.

Quality Objectives

1. To continually enhance departmental services and outcomes-based curricular programs which are aligned to the growing demands of different industries
2. To continually develop students who are well-versed in the field of information technology

ACADEMIC PROGRAMS

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Program Educational Objectives

Three to five years after graduation, the BS Information Technology (BSIT) alumni shall:

1. Globally competent, innovative, and socially and ethically responsible computing professionals engaged in life-long learning endeavors inspired by Dominican culture of Conscience, Discipline, and Excellence;
2. Contribute to the country's national development goals; and
3. Contribute to the improvement of quality of life through technological and/or innovative solutions.

Program Outcomes and Performance Indicators

Upon completion of BS Information Technology (BSIT), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none">• Engage in continual learning in one's specialization |
| 2. Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none">• Maintain stature and behavior that uphold the Professional Code of Ethics• Immerse in an actual working environment in industry |
| 3. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none">• Demonstrate responsible Filipino citizenship in local, national or international communities |
| 4. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none">• Plan and take action for the welfare of the community• Continually engage oneself in development projects and activities that address the community needs |
| 5. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none">• Observe the Dominican values of study, prayer, community, and service• Uphold ecological consciousness and engage in environmental stewardship• Participate actively in the community's spiritual and social advocacy or extension program |
| 6. Analyze complex problems and identify and define the computing requirements needed to design an appropriate solution | <ul style="list-style-type: none">• Formulate and decompose a problem into appropriate components.• Identify and formulate software and hardware requirements specifications.• Estimate resources required for the proposed solution |

| Program Outcomes | Performance Indicators |
|---|--|
| 7. Apply computing and other knowledge domains to address real-world problems | <ul style="list-style-type: none"> • Use computing theories and studies to create a solution that can address real world computing problems. • Use other related knowledge domains to create a solution that can address real world computing problems |
| 8. Design and develop computing solutions using a system level perspective | <ul style="list-style-type: none"> • Explain trends and directions of computer systems. • Identify constraints on design problems and establish criteria for acceptability of solutions; implement and evaluate solutions. • Plan and write programs demonstrating programming and debugging skills |
| 9. Utilize modern computing tools | <ul style="list-style-type: none"> • Use integrated development environment in developing software. • Demonstrate competence with the use of multiple modern platforms for computing and development. |
| 10. Apply knowledge of computing, science and mathematics appropriate to the discipline. | <ul style="list-style-type: none"> • Complete and successfully defend Capstone Project • Chooses a mathematical model of a system or process appropriate for required accuracy • Examines methodologies to solve computing problems in order to choose the more appropriate approach |
| 11. Understand best practices and standards and their applications | <ul style="list-style-type: none"> • Exemplify industry best practices upon creating, designing and innovating new computing applications • Recognize IT industry standards • Acquire knowledge and skills gained from completing OJT |
| 12. Identify and analyze user needs and take them into account in the selection creation evaluation and administration computer based systems | <ul style="list-style-type: none"> • Gather system requirements necessary for the development of a computing solution. • Analyze the gathered requirements for the development of a computing solution |
| 13. Design, implement and evaluate computer-based systems processes, components or programs to meet desired needs and requirements under values constraints | <ul style="list-style-type: none"> • Correctly design a solution based on the needs and requirements of the end-user • Implement the developed solution according to the specifications of the end-user • Evaluate an implemented process and recommend a better solution design process approach to meet the users desired needs |
| 14. Integrate IT-based solutions into the user environment effectively | <ul style="list-style-type: none"> • Defend a completed system or program that answers a certain problem or helps improved a current process • Participate in project roll-outs and analyze user feedbacks • Create system frequent updates to continuously improve IT-based services |

| Program Outcomes | Performance Indicators |
|--|--|
| 15. Apply knowledge through the use of current techniques, skills, tools and practices necessary for the IT profession | <ul style="list-style-type: none"> • Use an integrated development environment • Perform task-specific research to learn new techniques, skills, and tools. • Demonstrate competence with multiple current platforms for computing and development • Demonstrate competence with a selected set of tools |
| 16. Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings | <ul style="list-style-type: none"> • Work in a group to develop a machine project • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals • Work together with a team to create a solution to a computational problem |
| 17. Assist in the creation of an effective IT project plan | <ul style="list-style-type: none"> • Work in a group to develop a machine project • Produced a document which gathers data that analyze and specify the requirements of a system • Create general and detailed models that assist programmers in implementing a system |
| 18. Communicate effectively with the computing community and read society at large about complex computing activities through writing presentations and clear instructions | <ul style="list-style-type: none"> • Present a proposed solution in class or in a public forum • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Defend satisfactorily his/her thesis/capstone project from a panel of experts • Writing conforms to appropriate technical style format appropriate to the audience |
| 19. Analyze the local end global impact of computing information technology on individuals organizations and society | <ul style="list-style-type: none"> • Evaluates conflicting/competing social values in order to make informed decisions about an IT-based solution • Evaluates and analyses the economics on an IT-based solution • Identifies the individual organization and social issues involved in an IT-based solution and incorporates the sensitivity into the design process |
| 20. Understand professional ethical legal security and social issues and responsibilities in the utilization of information technology | <ul style="list-style-type: none"> • Immerse in an actual working environment in an industry • Engage on positions as IT professionals and/or embark on a research • Work effectively in the IT field to make a positive contribution to the society |
| 21. Recognize the need for and engage in planning self-learning and improving performance as foundation for continuing professional development | <ul style="list-style-type: none"> • Create a report on a conducted independent learning activity |

| Program Outcomes | Performance Indicators |
|------------------|---|
| | <ul style="list-style-type: none"> Expresses an awareness that education is continues after graduation Able to find information relevant to problem solution without guidance |

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Program Educational Objectives

Three to five years after graduation, the BS Computer Science (BSCS) alumni shall:

1. Globally competent, innovative, and socially and ethically responsible computing professionals engaged in life-long learning endeavors inspired by Dominican culture of Conscience, Discipline, and Excellence;
2. Contribute to the country's national development goals; and
3. Contribute to the improvement of quality of life through technological and/or innovative solutions.

Program Outcomes and Performance Indicators

Upon completion of BS Computer Science (BSCS), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> Engage in continual learning in one's specialization |
| 2. Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none"> Maintain stature and behavior that uphold the Professional Code of Ethics Immerse in an actual working environment in industry |
| 3. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> Demonstrate responsible Filipino citizenship in local, national or international communities |
| 4. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> Plan and take action for the welfare of the community Continually engage oneself in development projects and activities that address the community needs |
| 5. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> Observe the Dominican values of study, prayer, community, and service Uphold ecological consciousness and engage in environmental stewardship Participate actively in the community's spiritual and social advocacy or extension program |

| Program Outcomes | | Performance Indicators | |
|-------------------------|--|--|--|
| 6. | Analyze complex problems and identify and define the computing requirements needed to design an appropriate solution | <ul style="list-style-type: none"> • Formulate and decompose a problem into appropriate components. • Identify and formulate software and hardware requirements specifications. • Estimate resources required for the proposed solution | |
| 7. | Apply computing and other knowledge domains to address real-world problems | <ul style="list-style-type: none"> • Use computing theories and studies to create a solution that can address real world computing problems. • Use other related knowledge domains to create a solution that can address real world computing problems | |
| 8. | Design and develop computing solutions using a system level perspective | <ul style="list-style-type: none"> • Explain trends and directions of computer systems • Identify constraints on design problems and establish criteria for acceptability of solutions; implement and evaluate solutions • Use testing and debugging methods to • Ensure program correctness and completeness | |
| 9. | Utilize modern computing tools | <ul style="list-style-type: none"> • Use integrated development environment in developing software • Demonstrate competence with the use of multiple modern platforms for computing and development | |
| 10. | Apply knowledge of computing fundamentals, knowledge of a computing specialization, and mathematics, science, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models, from defined problems and requirements | <ul style="list-style-type: none"> • Complete and successfully defend Thesis in line with the discipline • Demonstrate competence in analyzing computing problems to implement and evaluate solutions • Utilize techniques appropriate to the abstraction and conceptualization of computing solutions | |
| 11. | Identify, analyze, formulate, research literature, and solve complex computing problems and requirements reaching substantiated conclusions using fundamental principles of mathematics, computing sciences and relevant domain disciplines | <ul style="list-style-type: none"> • Document software/hardware requirements specifications following computing industry standards • Read and critically evaluate papers in the professional literature and state research questions | |
| 12. | Apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer based systems, in a way that demonstrates comprehension of the tradeoffs involved in design choices | <ul style="list-style-type: none"> • Demonstrate an ability to apply mathematical foundations in the modeling and design of computer-based systems • Demonstrate an ability to apply algorithmic principles in the modeling and design of computer-based systems • Demonstrate an ability to apply computer science theory in the modeling and design of computer-based systems | |

| Program Outcomes | Performance Indicators |
|---|---|
| | <ul style="list-style-type: none"> • Demonstrate an understanding of tradeoffs involved in design choices |
| <p>13. Apply knowledge and understanding of information security issues in relation to the design, development and use of information systems</p> | <ul style="list-style-type: none"> • Describe set of controls and process both technical and policy intended to protect and defend information and information systems by ensuring their availability, integrity, authentication, and confidentiality • Articulate the strengths and weaknesses associated with different approaches to security to the validity of current and past processes of data |
| <p>14. Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations</p> | <ul style="list-style-type: none"> • Design and develop a computing solution using object-oriented approach • Explain trends and directions of computer systems • Identify constraints on design problems and establish criteria for acceptability of solutions; implement and evaluate solutions |
| <p>15. Create, select, adapt, and apply appropriate techniques, resources and modern computing tools, to complex computing activities, with an understanding of the limitations to accomplish a common goal</p> | <ul style="list-style-type: none"> • Use an integrated development environment • Demonstrate familiarization of current trends and technologies by describing its possible applications • Select and use variety of programming languages and assess its suitability concerning to a given problem domain |
| <p>16. Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings</p> | <ul style="list-style-type: none"> • Work in a group to develop a machine project • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals • Work together with a team to create a solution to a computational problem |
| <p>17. Communicate effectively with the computing community and with society at large about complex computing activities, by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions</p> | <ul style="list-style-type: none"> • Present a proposed solution in class or in a public forum • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Defend satisfactorily his/her thesis/capstone project from a panel of experts • Prepare and demonstrate documents and presentation materials that clearly convey information appropriate to peers and technical audiences |
| <p>18. Recognize the legal, social, ethical and professional issues involved in the utilization of computer technology and be guided by the adoption of appropriate professional, ethical, and legal practices</p> | <ul style="list-style-type: none"> • Immerse in an actual working environment in an industry • Recognize and describe current issues in information security and intellectual property • Demonstrate professional ethics and practices in assessing the implications of Information Technology policies. |

| Program Outcomes | Performance Indicators |
|--|---|
| | <ul style="list-style-type: none"> Apply code of ethics in making judgments regarding the issues involved in the use of computer technology |
| 19. Recognize the need, and have the ability to engage in independent learning for continual development as computing professional | <ul style="list-style-type: none"> Create a report on a conducted independent learning activity Demonstrate recognition of the need for continuing professional development Demonstrate familiarity with means for continuing professional development Students will demonstrate ability to independently identify and assimilate new information |

BACHELOR OF SCIENCE IN ENTERTAINMENT AND MULTIMEDIA COMPUTING

Program Educational Objectives

Three to five years after graduation, the BS Entertainment and Multimedia Computing (BS EMC) alumni shall:

- Globally competent, innovative, and socially and ethically responsible computing professionals engaged in life-long learning endeavors inspired by Dominican culture of Conscience, Discipline, and Excellence;
- Contribute to the country's national development goals; and
- Contribute to the improvement of quality of life through technological and/or innovative solutions.

Program Outcomes and Performance Indicators

Upon completion of BS Entertainment and Multimedia Computing (BS EMC), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|--|--|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> Engage in continual learning in one's specialization |
| 2. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> Express oneself clearly in verbal or written forms the updates in one's career or vocation Convey positive Filipino values in one's decisions and actions Defend satisfactorily his/her thesis/capstone project from a panel of experts Present a proposed solution in class or in a public forum |
| 3. Work effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> Perform well as a team leader or member in any kind of group project or activity |

| Program Outcomes | | Performance Indicators |
|------------------|--|---|
| | | <ul style="list-style-type: none"> Perform independently and cooperatively to accomplish worthwhile goals |
| 4. | Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none"> Maintain stature and behavior that uphold the Professional Code of Ethics Immerse in an actual working environment in industry |
| 5. | Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> Demonstrate responsible Filipino citizenship in local, national or international communities |
| 6. | Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> Plan and take action for the welfare of the community Continually engage oneself in development projects and activities that address the community needs |
| 7. | Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> Observe the Dominican values of study, prayer, community, and service Uphold ecological consciousness and engage in environmental stewardship Participate actively in the community's spiritual and social advocacy or extension program |
| 8. | Apply knowledge of mathematics, physical sciences, computing sciences to the practice of being an entertainment and multimedia computing professional | <ul style="list-style-type: none"> Complete and successfully defend capstone project in line with the discipline Use mathematical equations and functions, physical sciences concepts and appropriate computing theories in the development of a multimedia solution |
| 9. | Apply computing knowledge in each applicable field and provide solutions to actual problems | <ul style="list-style-type: none"> Provide various computing solutions that can address multimedia computing problems Select the best computing solution based on the comprehension of the tradeoffs involved in design choices |
| 10. | Apply knowledge of contemporary issues | <ul style="list-style-type: none"> Identify the professional, ethical, legal, security and social issues and responsibilities involved in the development of a multimedia solution and incorporate these sensitivities into the design process Identify the professional, ethical, legal, security and social issues and responsibilities involved in the production of a multimedia solution |
| 11. | Analyze project requirements and to design and implement project prototypes | <ul style="list-style-type: none"> Gather system requirements necessary for the development of a multimedia computing solution Identify and formulate software and hardware requirements specifications. Analyze the gathered requirements for the development of a multimedia computing solution |

| Program Outcomes | Performance Indicators |
|---|---|
| 12. Recognize, formulate, and solve computing problems | <ul style="list-style-type: none"> • Document software/hardware requirements specifications following computing industry standards • Formulate and decompose a problem into appropriate components • Provide assets necessary for resolving the multimedia computing problems |
| 13. Design, build, improve, and deploy products that meet client needs within realistic constraints | <ul style="list-style-type: none"> • Establish a clear and appropriate method for obtaining, evaluating, analyzing and interpreting data • Demonstrate understanding of the key themes and concepts of the creative work in process |
| 14. Use the appropriate techniques, skills, and modern computing tools necessary for the practice of being a professional in one's field | <ul style="list-style-type: none"> • Use an integrated development environment • Perform task-specific research to learn new techniques, skills, and tools • Demonstrate competence with multiple current platforms for computing and development • Demonstrate competence with a selected set of tools |
| 15. Assess local and global impacts of computing on society relevant to professional computing practice and subscription to accepted industry standards | <ul style="list-style-type: none"> • Demonstrate understanding of various ways in which multimedia computing impacts individuals, organizations, and society • Demonstrate an understanding of the responsibilities of a multimedia computing technology professional with respect to individuals and society |
| 16. Infer the effects and impact of entertainment computing projects on nature and society, and of their social and ethical responsibilities | <ul style="list-style-type: none"> • Assess the significance of multimedia computing and their impact on a global society • Consider a variety of available options in multimedia computing design and make a proper choice based on their impact |
| 17. Create or use modified artifacts in consideration of intellectual property rights of the author | <ul style="list-style-type: none"> • Demonstrate critical knowledge of professional multimedia computing standards • Create or use assets with respect to copyright, intellectual property right, trademark, and patent whichever is applicable |
| 18. Engage in life-long learning and acceptance of the need to keep current of the development in the specific field of specialization | <ul style="list-style-type: none"> • Create a report on a conducted independent learning activity • Demonstrate recognition of the need for continuing professional development • Demonstrate familiarity with means for continuing professional development • Demonstrate the ability to independently identify and assimilate new information |
| 19. Demonstrate original creative outputs | <ul style="list-style-type: none"> • Plan and carry out original and creative multimedia production |

| Program Outcomes | Performance Indicators |
|---|---|
| | <ul style="list-style-type: none"> • Demonstrate technical proficiency in the production of the multimedia project |
| 20. Demonstrate innovativeness in their outputs | <ul style="list-style-type: none"> • Demonstrate through multimedia outputs the fusion of theoretical ideas and multimedia production practices • Demonstrate the student's creative expertise and professional skill through multimedia projects |
| 21. Demonstrate client-centric service | <ul style="list-style-type: none"> • Coordinates with the client the multimedia requirements throughout the development of the multimedia solution • Conducts demonstration of the multimedia solution's milestones • Deliver the multimedia solution to the client at the appointed schedule with all the agreed functions and specifications |

SCHOOL OF TOURISM AND HOSPITALITY MANAGEMENT

School Logo



Vision

The School of Tourism and Hospitality Management envisions itself to be recognized as the School of International Tourism and Hospitality Management and the Center of Development in Tourism and Hospitality Management in the region in year 2020.

Mission

In line with the Colegio's mission, the School commits to provide Tourism and Hospitality Management education imbued with Filipino, Dominican, and Christian values. The school endeavors to produce globally competitive graduates in the field of Tourism and Hospitality Management through competency-based curriculum, industry- simulated facilities, and specialized instruction.

Quality Objectives

1. To equip students with theoretical knowledge and practical training relevant to the tourism and hospitality industry
2. To continually enhance personnel competency, curricular programs and academic support services

ACADEMIC PROGRAMS

BACHELOR OF SCIENCE IN HOSPITALITY MANAGEMENT

Program Educational Objectives

Three to five years after graduation, the Bachelor of Science in Hospitality Management (BSHM) alumni shall:

1. Analyze challenges and respond with creativity and innovation as they manage successfully the daily operations in the workplace;
2. Communicate effectively in a multi-cultural environment;
3. Keep updated through training, graduate studies, professional affiliation, and/or practice;
4. Integrate Christian service and professional ethics in various areas of their career and profession;
5. Assume competent management role in the hospitality business and other related enterprise; and
6. Impart and share expertise to those in the academe and those pursuing continuing professional development.

Program Outcomes and Performance Indicators

Upon completion of Bachelor of Science in Hospitality Management (BSHM), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|--|---|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none">• Engage in continual learning in one's specialization |
| 2. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none">• Express oneself clearly in verbal or written forms the updates in one's career or vocation• Convey positive Filipino values in one's decisions and actions• Defend satisfactorily his/her thesis from a panel of experts• Display proficient conversational skills in Filipino, English and other foreign languages used in the industry• Display proficient written skills in Filipino, English and other foreign languages used in the industry |
| 3. Work effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none">• Perform well as a team leader or member in any kind of group project or activity• Perform independently and cooperatively to accomplish worthwhile goals |
| 4. Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none">• Maintain stature and behavior that uphold the Professional Code of Ethics |

| Program Outcomes | Performance Indicators |
|--|---|
| | <ul style="list-style-type: none"> Immerse in an actual working environment in industry |
| 5. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> Demonstrate responsible Filipino citizenship in local, national or international communities |
| 6. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> Plan and take action for the welfare of the community Continually engage oneself in development projects and activities that address the community needs |
| 7. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> Observe the Dominican values of study, prayer, community, and service Uphold ecological consciousness and engage in environmental stewardship Participate actively in the community's spiritual and social advocacy or extension program |
| 8. Perform the basic functions of management such as planning, organizing, leading, and controlling | <ul style="list-style-type: none"> Develop and defend a tourism development plan that incorporate relevant inputs such as laws, market research and feasibility study, product development, among others Assume leadership role in hospitality related activities |
| 9. Apply the basic concepts that underlie each of the functional areas of business (marketing, finance, human resources management, production and operations management, information technology, and strategic management) and employ these concepts in various business situations | <ul style="list-style-type: none"> Apply the concept of management to assess and formulate operational plan Employ essential strategy-related components and principles for decision making |
| 10. Select the proper decision making tools to critically, analytically and creatively solve problems and drive results | <ul style="list-style-type: none"> Apply appropriate quantitative tools to address a business case problem Suggest sound solution to problems encountered in business operations |
| 11. Apply information and communication technology (ICT) skills as required by the business environment | <ul style="list-style-type: none"> Prepare a social media marketing plan Create business advertisement using technology application |
| 12. Manage conflict in the workplace | <ul style="list-style-type: none"> Conduct a planning and problem solving meeting to resolve issues related to a planned business event. Engage in activities that promote teamwork Apply business ethics in dealing with guests and co-workers |
| 13. Plan and implement business related activities | <ul style="list-style-type: none"> Develop and defend a business plan for restaurant, hotel, or allied ventures incorporating sales and marketing principles and financial analysis Identify methods, techniques, and devises appropriate in an organization in business implementation and process Engage in entrepreneurial management |

| Program Outcomes | | Performance Indicators |
|------------------|--|--|
| 14. | Demonstrate corporate and social responsibility | <ul style="list-style-type: none"> Propose social responsibility strategies and compliance action plan for a business Apply appropriate CSR technique in decision making Participate in a corporate and social responsibility endeavor |
| 15. | Exercise high personal, moral, and ethical standards | <ul style="list-style-type: none"> Exhibit honesty, fairness, equity, and good faith in dealing with other person |
| 16. | Demonstrate knowledge to the tourism industry local tourism products and services | <ul style="list-style-type: none"> Identify premier tourist destinations in the country Provide information on geographical location, cultural features, festivals and other tourist attractions of major local tourist destinations Identify gastronomical features of each Regions in the Philippines |
| 17. | Interpret and apply relevant laws related to the tourism industry | <ul style="list-style-type: none"> Source information on compliance and related issues which impact on the tourism industry Identify legal and ethical issues related to the workplace and to the tourism industry in general |
| 18. | Observe and perform risk mitigation activities | <ul style="list-style-type: none"> Identify workplace related hazards and risks Perform work related activities in consideration to established safety and standards |
| 19. | Utilize information technology applications for tourism and hospitality | <ul style="list-style-type: none"> Apply knowledge in information technology used by hotel and travel industry Create a marketing tool using information technology |
| 20. | Manage and market a service oriented business organization | <ul style="list-style-type: none"> Develop a marketing plan for hospitality and tourism business Recommend simple business strategies for restaurant and travel businesses |
| 21. | Demonstrate administrative and managerial skills in a service oriented business organization | <ul style="list-style-type: none"> Use the basic managerial skills in operating a business enterprise Apply management practices based on the acceptable business standards |
| 22. | Prepare and monitor financial transactions and reports | <ul style="list-style-type: none"> Identify entries in the financial statement used by business enterprise Create a business financial statement |
| 23. | Perform human capital development functions of a tourism oriented organization | <ul style="list-style-type: none"> Exhibit an effective understanding of human behavior in the tourism industry Apply leadership skills in handling a team |
| 24. | Utilize various communication channels proficiently in dealing with guests and colleagues | <ul style="list-style-type: none"> Clear and effective writing for different formats and platforms Effective and responsible use of non-verbal cues, pictures, graphics, and images in oral, written, and online communication |
| 25. | Produce food products and services complying with enterprise standards | <ul style="list-style-type: none"> Select appropriate cooking equipment to prepare standard recipes Use equipment in a safe manner according to manufacturer's and enterprise procedures Identify and solve problems in the application of cooking methods |

| Program Outcomes | Performance Indicators |
|---|--|
| | <ul style="list-style-type: none"> • Communicate with front of the house staff on the production/service of menu items |
| 26. Apply management skills in F & B service and operations | <ul style="list-style-type: none"> • Conduct pre-opening briefing to the food and beverage team • Prepare detailed work schedule for the food production and service staff • Supervise food production and service based on the enterprise standards • Maintain smooth flow of food and beverage service operations • Address guest complaints in a professional manner |
| 27. Perform and provide full guest cycle services for front office | <ul style="list-style-type: none"> • Perform skills in assessing the needs of the guest during pre-arrival, arrival, occupancy, and departure • Apply skills in receiving and processing guest reservation • Handle guest complaints in a timely and professional manner |
| 28. Perform and maintain various housekeeping services for guest and facility operations | <ul style="list-style-type: none"> • Perform skills in housekeeping according to international standards • Formulate housekeeping recommendation on task execution • Respond to different guests concerns using appropriate judgment |
| 29. Plan and implement a risk management program to provide a safe and secure workplace | <ul style="list-style-type: none"> • Identify key hazards and risks associated with individual work role • Follow safety procedures in accordance with enterprise requirements • Ensure work activities conforms with the enterprise safety program |
| 30. Provide food and beverage service and manage the operation seamlessly based on industry standards | <ul style="list-style-type: none"> • Perform different types of food and beverage service based on industry standards • Effectively communicate with foreign and local guests • Handle guest complaints in a professional manner |

BACHELOR OF SCIENCE IN TOURISM MANAGEMENT

Program Educational Objectives

Three to five years after graduation, the Bachelor of Science in Tourism Management (BSTM) alumni shall:

1. Analyze challenges and respond with creativity and innovation as they manage successfully the daily operations in the workplace;
2. Communicate effectively in a multi-cultural environment;

3. Keep updated through training, graduate studies, professional affiliation, and/or practice;
4. Integrate Christian service and professional ethics in various areas of their career and profession;
5. Assume competent management role in the hospitality business and other related enterprise; and
6. Impart and share expertise to those in the academe and those pursuing continuing professional development.

Program Outcomes and Performance Indicators

Upon completion of Bachelor of Science in Tourism Management (BSTM), the graduate, who is trained in a culture of conscience and excellence with Filipino, Dominican, and Christian in orientation, must be able to:

| Program Outcomes | Performance Indicators |
|---|---|
| 1. Articulate and discuss the latest developments in the specific field of practice | <ul style="list-style-type: none"> • Engage in continual learning in one's specialization |
| 2. Effectively communicate orally and in writing using English, Filipino, mother tongue language, and an appropriate Foreign Language required by the industry | <ul style="list-style-type: none"> • Express oneself clearly in verbal or written forms the updates in one's career or vocation • Convey positive Filipino values in one's decisions and actions • Defend satisfactorily his/her thesis from a panel of experts • Display proficient conversational skills in Filipino, English and other foreign languages used in the industry • Display proficient written skills in Filipino, English and other foreign languages used in the industry |
| 3. Work effectively and independently in multi-disciplinary and multi-cultural teams | <ul style="list-style-type: none"> • Perform well as a team leader or member in any kind of group project or activity • Perform independently and cooperatively to accomplish worthwhile goals |
| 4. Act in recognition of professional, social, and ethical responsibility | <ul style="list-style-type: none"> • Maintain stature and behavior that uphold the Professional Code of Ethics • Immerse in an actual working environment in industry |
| 5. Preserve and promote Filipino historical and cultural heritage (based on RA No. 7722) | <ul style="list-style-type: none"> • Demonstrate responsible Filipino citizenship in local, national or international communities |
| 6. Participate in various types of employment, development activities, and public discourses, particularly in response to the needs of the communities one serves | <ul style="list-style-type: none"> • Plan and take action for the welfare of the community • Continually engage oneself in development projects and activities that address the community needs |
| 7. Manifest strong commitment and conviction to the Christian and Dominican teachings and philosophy in thoughts, words, and deeds | <ul style="list-style-type: none"> • Observe the Dominican values of study, prayer, community, and service • Uphold ecological consciousness and engage in environmental stewardship |

| Program Outcomes | Performance Indicators |
|--|--|
| | <ul style="list-style-type: none"> Participate actively in the community's spiritual and social advocacy or extension program |
| 8. Perform the basic functions of management such as planning, organizing, leading, and controlling. | <ul style="list-style-type: none"> Develop and defend a tourism development plan that incorporate relevant inputs such as laws, market research and feasibility study, product development, among others Assume leadership role in tourism related activities |
| 9. Apply the basic concepts that underlie each of the functional areas of business (marketing, finance, human resources management, production and operations management, information technology, and strategic management) and employ these concepts in various business situations | <ul style="list-style-type: none"> Apply the concept of management to assess and formulate operational plan Employ essential strategy-related components and principles for decision making |
| 10. Select the proper decision making tools to critically, analytically and creatively solve problems and drive results | <ul style="list-style-type: none"> Apply appropriate quantitative tools to address a business case problem Suggest sound solution to problems encountered in business operations |
| 11. Apply information and communication technology (ICT) skills as required by the business environment | <ul style="list-style-type: none"> Prepare a social media marketing plan Create business advertisement using technology application |
| 12. Manage conflict in the workplace | <ul style="list-style-type: none"> Conduct a planning and problem solving meeting to resolve issues related to a planned business event. Engage in activities that promote teamwork Apply business ethics in dealing with clients and co-workers |
| 13. Plan and implement business related activities | <ul style="list-style-type: none"> Develop and defend a business plan for tourism related enterprise, or allied ventures incorporating sales and marketing principles and financial analysis Identify methods, techniques, and devises appropriate in an organization in business implementation and process Engage in entrepreneurial management |
| 14. Demonstrate corporate and social responsibility | <ul style="list-style-type: none"> Propose social responsibility strategies and compliance action plan for a business Apply appropriate CSR technique in decision making Participate in a corporate and social responsibility endeavor |
| 15. Exercise high personal, moral, and ethical standards | <ul style="list-style-type: none"> Exhibit honesty, fairness, equity, and good faith in dealing with other person |
| 16. Demonstrate knowledge to the tourism industry local tourism products and services | <ul style="list-style-type: none"> Identify premier tourist destinations in the country Provide information on geographical location, cultural features, festivals and other tourist attractions of major local tourist destinations Identify gastronomical features of each Regions in the Philippines |

| Program Outcomes | | Performance Indicators |
|-------------------------|--|--|
| 17. | Interpret and apply relevant laws related to the tourism industry | <ul style="list-style-type: none"> • Source information on compliance and related issues which impact on the tourism industry • Identify legal and ethical issues related to the workplace and to the tourism industry in general |
| 18. | Observe and perform risk mitigation activities | <ul style="list-style-type: none"> • Identify workplace related hazards and risks • Perform work related activities in consideration to established safety and standards |
| 19. | Utilize information technology applications for tourism and hospitality | <ul style="list-style-type: none"> • Apply knowledge in information technology used by hotel and travel industry • Create a marketing tool using information technology |
| 20. | Manage and market a service oriented business organization | <ul style="list-style-type: none"> • Develop a marketing plan for hospitality and tourism business • Recommend simple business strategies for restaurant and travel businesses |
| 21. | Demonstrate administrative and managerial skills in a service oriented business organization | <ul style="list-style-type: none"> • Use the basic managerial skills in operating a business enterprise • Apply management practices based on the acceptable business standards |
| 22. | Prepare and monitor financial transactions and reports | <ul style="list-style-type: none"> • Identify entries in the financial statement used by business enterprise • Create a business financial statement |
| 23. | Perform human capital development functions of a tourism oriented organization | <ul style="list-style-type: none"> • Exhibit an effective understanding of human behavior in the tourism industry • Apply leadership skills in handling a team |
| 24. | Utilize various communication channels proficiently in dealing with guests and colleagues | <ul style="list-style-type: none"> • Clear and effective writing for different formats and platforms • Effective and responsible use of non-verbal cues, pictures, graphics, and images in oral, written, and online communication |
| 25. | Plan, implement, and monitor tours and sales activities | <ul style="list-style-type: none"> • Create tour packages in consideration with client preferences • Perform knowledge in computerized travel reservations • Perform functions of a travel agent • Supervise travel business operations |
| 26. | Research, plan, and conduct various tour guiding activities | <ul style="list-style-type: none"> • Obtain information on new travel trends and integrate to the existing business products and services • Create tour itineraries that will delight client • Maintain contact with travel stakeholders • Supervise tour guiding activity in consideration with risk management |
| 27. | Develop appropriate marketing programs and arrange the required travel services | <ul style="list-style-type: none"> • Develop marketing plan to promote travel related products and services. • Recommend simple business strategies for travel services • Provide correct information to clients on the required travel documents |

| Program Outcomes | | Performance Indicators |
|-------------------------|---|--|
| 28. | Plan/organize, implement, and evaluate MICE activities | <ul style="list-style-type: none"> • Apply competencies in conceptualizing an event with consideration to target market, logistics, suppliers and safety and security • Organize an actual MICE activities • Delegate work assignments to team members • Perform a post activity assessment for enhancement |
| 29. | Plan, develop, and evaluate tourism sites and attractions | <ul style="list-style-type: none"> • Identify and access sources for correct information on the local area • Provide accurate local tourism information in response to queries • Identify sources of information on tourism industry statistics and trends • Apply information on legal and ethical issues for the tourism industry • Monitor current issues of concern related to the tourism industry |

CURRICULAR OFFERINGS

BACHELOR OF ARTS IN COMMUNICATION

| FIRST YEAR | | | | | |
|-----------------------|--|--------------|------------------------|---|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| ABCOMM003 | Introduction to Communication Media | 3 | ABCOMM013 | Communication Theory | 3 |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 | ABCOMM023 | Communication Media Laws and Ethics | 3 |
| GEC003 | Understanding the Self | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| GEC013 | Science, Technology, and Society | 3 | GEC033 | Mathematics in the Modern World | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | GEC043 | The Contemporary World | 3 |
| GEC073 | Ethics | 3 | GEC053 | Art Appreciation | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | GEC063 | Purposive Communication | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | NSTP2-18 | National Service Training Program 2 | 3 |
| | Total | 23 | PE022-18 | Rhythmic Activities | 2 |
| | | | RELED051 | The Catholic Christian Faith | 1 |
| | | | | Total | 27 |

| SECOND YEAR | | | | | |
|-----------------------|--|--------------|------------------------|---|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| ABCOMM093 | Development Communication | 3 | ABCOMM153 | Journalism Principles and Practices | 3 |
| ABCOMM193 | Public Relation Principles and Practices | 3 | ABCOMM163 | Broadcasting Principles and Practices | 3 |
| ABCOMM223 | Communication Planning | 3 | ABCOMM183 | Advertising Principles and Practices | 3 |
| ABCOMM283 | Organizational Culture and Communication | 3 | ABCOMM293 | Digital Publishing | 3 |
| ABElec-1 | Risk, Disaster, and Humanitarian Communication | 3 | ABCOMM303 | Philippine Arts | 3 |
| ABElec-2 | Creative Writing | 3 | FIL113 | Panitikang Filipino | 3 |
| LQEC013 | Letran Quality Enrichment Course 1 | 3 | LQEC023 | Letran Quality Enrichment Course 2 | 3 |
| PE032-18 | Individual/Dual Sports | 2 | PE042-18 | Team Sports | 2 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| | Total | 26 | RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| | | | | Total | 29 |

| THIRD YEAR | | | | | |
|-----------------------|------------------------------------|--------------|------------------------|------------------------------------|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| ABCOMM133 | Communication Research | 3 | AB-THA | Thesis 1 (Proposal) | 3 |
| ABCOMM143 | Communication Culture and Society | 3 | ABCOMM323 | Digital Imaging | 3 |
| ABCOMM203 | Knowledge Management | 3 | ABElec-7 | Film Production | 2 |
| ABCOMM263 | Communication Management | 3 | ABElec-7L | Film Production Lab | 1 |
| ABCOMM313 | Web Content Management | 3 | LQEC043 | Letran Quality Enrichment Course 4 | 3 |
| ABElec-5 | Basic Photography | 2 | | Total | 12 |
| ABElec-5L | Basic Photography Lab | 1 | | | |
| LQEC033 | Letran Quality Enrichment Course 3 | 3 | | | |
| | Total | 21 | | | |

| FOURTH YEAR | | | | | |
|-----------------------|----------------------------------|--------------|------------------------|------------------------------------|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| AB-THB | Thesis 2 (Final Stage) | 3 | AB-PRC6 | Communication Internship (600 hrs) | 6 |
| ABCOMM122 | Introduction to Theater Arts | 2 | | Total | 6 |
| ABCOMM121L | Introduction to Theater Arts Lab | 1 | | | |
| ABElec-6 | Performance Media | 3 | | | |
| | Total | 9 | | GRAND TOTAL | 153 |

BACHELOR OF SCIENCE IN PSYCHOLOGY

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|--|--------------|
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 | Chem022L | College Chemistry Lab | 2 |
| GEC003 | Understanding the Self | 3 | Chem023 | College Chemistry | 3 |
| GEC013 | Science, Technology and Society | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| GEC033 | Mathematics in the Modern World | 3 | GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC073 | Ethics | 3 | GEC043 | The Contemporary World | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | LQEC053 | Letran Quality Enrichment Course 5 | 3 |
| PE02-18 | Physical Fitness and Related Activities | 2 | NSTP2-18 | National Service Training Program 2 | 3 |
| Psych003 | Introduction to Psychology | 3 | PE022-18 | Rhythmic Activities | 2 |
| RELED051 | The Catholic Christian Faith | 1 | Psych032L | Psychological Statistics Lab | 2 |
| | Total | 24 | Psych033 | Psychological Statistics | 3 |
| | | | | Total | 27 |

SECOND YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---|--------------|
| FIL113 | Panitikang Filipino | 3 | GEC063 | Purposive Communication | 3 |
| LQEC063 | Letran Quality Enrichment Course 6 | 3 | LQEC073 | Letran Quality Enrichment Course 7 | 3 |
| PE032-18 | Individual/Dual Sports | 2 | NSci092L | College Zoology Lab | 2 |
| Phys022L | College Physics Lab | 2 | NSci093 | College Zoology | 3 |
| Phys023 | College Physics | 3 | PE042-18 | Team Sports | 2 |
| Psych023 | Developmental Psychology | 3 | Psych063 | Cognitive Psychology | 3 |
| Psych043 | Theories of Personality | 3 | Psych093 | Abnormal Psychology | 3 |
| Psych082L | Experimental Psychology Lab | 2 | Psych172L | Field Methods in Psychology Lab | 2 |
| Psych083 | Experimental Psychology | 3 | Psych173 | Field Methods in Psychology | 3 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| | Total | 27 | | Total | 27 |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--------------------------------------|--------------|------------------------|-------------------------------------|--------------|
| GEC053 | Art Appreciation | 3 | LQEC093 | Letran Quality Enrichment Course 9 | 3 |
| LQEC083 | Letran Quality Enrichment Course 8 | 3 | Psych-RESB | Research in Psychology II | 3 |
| NSci023 | Environmental Science | 3 | Psych103 | Social Psychology | 3 |
| NSci063 | Neuro-Anatomy | 3 | Psych133 | Physiological/Biological Psychology | 3 |
| Psych-RESA | Research in Psychology I | 3 | Psych143 | Group Dynamics | 3 |
| Psych113 | Industrial/Organizational Psychology | 3 | Psych223 | Introduction to Clinical Psychology | 3 |
| Psych123 | Sikolohiyang Pilipino | 3 | Psych262L | Psychological Assessment Lab | 2 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | Psych263 | Psychological Assessment | 3 |
| | Total | 24 | | Total | 23 |

| <i>Inter-Semester</i> | | <i>Units</i> |
|-----------------------|--------------------------------|--------------|
| Psych-PRC-I | Industrial Practicum (200 hrs) | 2 |
| | Total | 2 |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|-------------------------------------|--------------|------------------------|---------------------------------|--------------|
| LQEC103 | Letran Quality Enrichment Course 10 | 3 | Psych-PRC-E | Educational Practicum (200 hrs) | 2 |
| Psych-PRC-C | Clinical Practicum (200 hrs) | 2 | Psych-ST006 | Special Topics in Psychology | 6 |
| | Total | 5 | | Total | 8 |

GRAND TOTAL 167

BACHELOR OF SECONDARY EDUCATION MAJOR IN ENGLISH

| FIRST YEAR | | | | | |
|------------|---|--------------|--------------|---|--------------|
| | <i>First Semester</i> | <i>Units</i> | | <i>Second Semester</i> | <i>Units</i> |
| EDUC253 | The Child and Adolescent Learners and Learning Principles | 3 | EDUC063A | Assessment in Learning 1 | 3 |
| EDUC263 | Building and Enhancing New Literacies Across the Curriculum | 3 | EDUC273 | Technology for Teaching and Learning 1 | 3 |
| EDUC283 | Facilitating Learner Centered Teaching | 3 | EDUC293 | Foundation of Special and Inclusive Education | 3 |
| FIL083 | Komunikasyon sa Akademikong Filipino | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| GEC013 | Science, Technology, and Society | 3 | GEC003 | Understanding the Self | 3 |
| GEC073 | Ethics | 3 | GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| LIT103 | Survey of Philippine Literature in English | 3 | LIT063 | Mythology and Folklore | 3 |
| LIT113 | Children and Adolescent Literature | 3 | LQEC113 | Letran Quality Enrichment Course 11 (Prof Educ Courses 1) | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | NSTP2-18 | National Service Training Program 2 | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | PE022-18 | Ryhtmic Activities | 2 |
| | Total | 29 | RELED051 | The Catholic Christian Faith | 1 |
| | | | Total | | 30 |

| SECOND YEAR | | | | | |
|-------------|---|--------------|--------------|---|--------------|
| | <i>First Semester</i> | <i>Units</i> | | <i>Second Semester</i> | <i>Units</i> |
| EDUC063B | Assessment in Learning 2 | 3 | ENED223 | Language, Culture, and Society | 3 |
| EDUC233 | The Teaching Profession | 3 | ENED233 | Structures of English | 3 |
| EDUC303 | The Teacher and the School Curriculum | 3 | ENED243 | Principles and Theories of Language Acquisition and Learning | 3 |
| EDUC313 | The Teacher and the Community, School Culture and Organizational Leadership | 3 | ENED253 | Language Programs and Policies in Multilingual Societies | 3 |
| ENED023B | Introduction to Linguistics | 3 | GEC033 | Mathematics in the Modern World | 3 |
| FIL113 | Panitikang Filipino | 3 | LIT093 | Survey of English and Americal Literature | 3 |
| LIT083 | Survey of Afro-Asian Literature | 3 | LQEC133 | Letran Quality Enrichment Course 13 (Prof Educ Courses 3) | 3 |
| LQEC123 | Letran Quality Enrichment Course 12 (Prof Educ Courses 2) | 3 | PE042-18 | Team Sports | 2 |
| PE032-18 | Individual Dual Sports | 2 | RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| | Total | 29 | | | Total |
| | | | | | 29 |
| | | | | <i>Inter-Semester</i> | <i>Units</i> |
| | | | GEC043 | The Contemporary World | 3 |
| | | | GEC053 | Art Appreciation | 3 |
| | | | LQEC173 | Letran Quality Enrichment Course 17 (Specialization Courses 1) | 3 |
| | | | Total | | 9 |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|---|--------------|
| EDUC-RESA | Educational Research I | 3 | EDUC-RESB | Educational Research II | 3 |
| ENED053B | Campus Journalism | 3 | ENED-ELEC2 | Stylistic and Discourse Analysis | 3 |
| ENED263 | Language Learning Materials Development | 3 | ENED283 | Teaching and Assessment of Macroskills | 3 |
| ENED273 | Teaching and Assessment of Literature Studies | 3 | ENED293 | Teaching and Assessment of Grammar | 3 |
| ENED-ELEC1 | English for Specific Purposes | 3 | ENED303 | Language Education Research | 3 |
| GEC063 | Purposive Communication | 3 | ENED313 | Speech and Theater Arts | 3 |
| LIT123 | Contemporary, Popular, and Emergent Literature | 3 | ENED323 | Technical Writing | 3 |
| LIT213 | Literary Criticism | 3 | ENED333 | Technology for Teaching and Learning 2 (Technology in Language Education) | 3 |
| LQEC183 | Letran Quality Enrichment Course 18 (Specialization Courses 2) | 3 | LQEC193 | Letran Quality Enrichment Course 19 (Specialization Courses 3) | 3 |
| | | Total | | | Total |
| | | 27 | | | 27 |

| <i>Inter-Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|
| EDUC-ST006 | Special Topics | 6 |
| LQEC204 | Letran Quality Enrichment Course 20 (Specialization Courses 4) | 4 |
| | | Total |
| | | 10 |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|--|--------------------|
| FS1 | Field Study 1 (Observation of Teaching Learning in Actual School Environment) | 3 | EDUC-PRC6 | Practice Teaching (Off-campus/600 hrs) | 6 |
| FS2 | Field Study 2 (Participation and Teaching Assistantship) | 3 | | | Total |
| | | Total | | | 6 |
| | | 6 | | | GRAND TOTAL |
| | | | | | 202 |

BACHELOR OF SECONDARY EDUCATION MAJOR IN MATHEMATICS

| FIRST YEAR | | | | | |
|-----------------------|---|--------------|------------------------|---|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| EDUC253 | The Child and Adolescent Learners and Learning Principles | 3 | EDUC063A | Assessment in Learning 1 | 3 |
| EDUC263 | Building and Enhancing New Literacies Across the Curriculum | 3 | EDUC273 | Technology for Teaching and Learning 1 | 3 |
| EDUC283 | Facilitating Learner Centered Teaching | 3 | EDUC293 | Foundation of Special and Inclusive Education | 3 |
| FIL083 | Komunikasyon sa Akademikong Filipino | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksi | 3 |
| GEC013 | Science, Technology, and Society | 3 | GEC003 | Understanding the Self | 3 |
| GEC073 | Ethics | 3 | GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| MTED003 | History of Math | 3 | LQEC113 | Letran Quality Enrichment Course 11 (Prof Educ Courses 1) | 3 |
| MTED013B | Plane and Solid Geometry | 3 | MTED023B | Trigonometry | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | NSTP2-18 | National Service Training Program 2 | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | PE022-18 | Ryhtmic Activities | 2 |
| | Total | 29 | RELED051 | The Catholic Christian Faith | 1 |
| | | | Total | | 30 |

| SECOND YEAR | | | | | |
|-----------------------|---|--------------|------------------------|---|-----------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| EDUC063B | Assessment in Learning 2 | 3 | GEC033 | Mathematics in the Modern World | 3 |
| EDUC233 | The Teaching Profession | 3 | LQEC133 | Letran Quality Enrichment Course 13 (Prof Educ Courses 3) | 3 |
| EDUC303 | The Teacher and the School Curriculum | 3 | LQEC213 | Letran Quality Enrichment Course 21 (Specialization Courses 1) | 3 |
| EDUC313 | The Teacher and the Community, School Culture and Organizational Leadership | 3 | MTED033B | Mathematics of Investment | 3 |
| FIL113 | Panitikang Filipino | 3 | MTED073B | Linear Algebra | 3 |
| LQEC123 | Letran Quality Enrichment Course 12 (Prof Educ Courses 2) | 3 | MTED204 | Calculus 1 with Analytic Geometry | 4 |
| MTED043D | Modern Geometry | 3 | PE042-18 | Team Sports | 2 |
| MTED173 | College and Advanced Algebra | 3 | RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 |
| PE032-18 | Individual Dual Sports | 2 | RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | | | |
| | Total | 29 | | | Total 27 |

| <i>Inter-Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| LQEC223 | Letran Quality Enrichment Course 22 (Specialization Courses 2) | 3 |
| | Total | 9 |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---------------------------------------|--------------|------------------------|--|--------------|
| EDUC-RESA | Educational Research I | 3 | EDUC-RESB | Educational Research II | 3 |
| GEC063 | Purposive Communication | 3 | LQEC233 | Letran Quality Enrichment Course 23 (Specialization Courses 3) | 3 |
| MTED133B | Number Theory | 3 | MTED233 | Problem Solving, Mathematical Investigation & Modelling | 3 |
| MTED143B | Abstract Algebra | 3 | MTED243 | Calculus 3 | 3 |
| MTED183 | Logic and Set Theory | 3 | MTED253 | Principles & Strategies in Teaching Mathematics | 3 |
| MTED193 | Elementary Statistics and Probability | 3 | MTED263 | Research in Mathematics | 3 |
| MTED214 | Calculus 2 | 4 | MTED274 | Technology for Teaching and Learning 2 (Instrumentation and Technology in Mathematics) | 4 |
| MTED223 | Advanced Statistics | 3 | MTED293 | Assessment and Evaluation in Mathematics | 3 |
| | | Total | | | Total |
| | | 25 | | | 25 |

| <i>Inter-Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|
| EDUC-ST006 | Special Topics | 6 |
| LQEC244 | Letran Quality Enrichment Course 24 (Specialization Courses 4) | 4 |
| | | Total |
| | | 10 |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|--|--------------|
| FS1 | Field Study 1 (Observation of Teaching Learning in Actual School Environment) | 3 | EDUC-PRC6 | Practice Teaching (Off-campus/600 hrs) | 6 |
| FS2 | Field Study 2 (Participation and Teaching Assistantship) | 3 | | | Total |
| | | Total | | | 6 |
| | | 6 | | | |
| | | | | GRAND TOTAL | 196 |

BACHELOR OF ELEMENTARY EDUCATION

| FIRST YEAR | | | | | |
|-----------------------|---|--------------|------------------------|---|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| EDUC253 | The Child and Adolescent Learners and Learning Principles | 3 | EDUC063A | Assessment in Learning 1 | 3 |
| EDUC263 | Building and Enhancing New Literacies Across the Curriculum | 3 | EDUC273 | Technology for Teaching and Learning 1 | 3 |
| EDUC283 | Facilitating Learner Centered Teaching | 3 | EDUC293 | Foundation of Special and Inclusive Education | 3 |
| ELEM013 | Teaching Biology and Chemistry in the Elementary Grades | 3 | ELEM023 | Teaching Philippine History and Government in the Elementary Grades | 3 |
| FIL083 | Komunikasyon sa Akademikong Filipino | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksil | 3 |
| GEC013 | Science, Technology, and Society | 3 | GEC003 | Understanding the Self | 3 |
| GEC073 | Ethics | 3 | GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | LQEC113 | Letran Quality Enrichment Course 11 (Prof Educ Courses 1) | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | NSTP2-18 | National Service Training Program 2 | 3 |
| | | Total | PE022-18 | Ryhtmic Activities | 2 |
| | | 26 | RELED051 | The Catholic Christian Faith | 1 |
| | | | Total | | 30 |

| SECOND YEAR | | | | | |
|-----------------------|---|--------------|------------------------|--|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| EDUC063B | Assessment in Learning 2 | 3 | ELEM053 | Teaching Language Arts in the Elementary Grades | 3 |
| EDUC233 | The Teaching Profession | 3 | ELEM063 | Pagtuturo ng Estructura at Gamit ng Wikang Filipino sa Elementarya | 3 |
| EDUC303 | The Teacher and the School Curriculum | 3 | ELEM073 | Teaching Music in the Elementary Grades | 3 |
| EDUC313 | The Teacher and the Community, School Culture and Organizational Leadership | 3 | ELEM083 | Edukasyong Pantahanan at Pangkabuhayan | 3 |
| ELEM033 | Teaching Math in the Primary Grades | 3 | GEC033 | Mathematics in the Modern World | 3 |
| ELEM043 | Good Manners and Right Conduct (Edukasyon sa Pagpapakatao) | 3 | GEC043 | The Contemporary World | 3 |
| FIL113 | Panitikang Filipino | 3 | LQEC133 | Letran Quality Enrichment Course 13 (Prof Educ Courses 3) | 3 |
| LQEC123 | Letran Quality Enrichment Course 12 (Prof Educ Courses 2) | 3 | PE042-18 | Team Sports | 2 |
| PE032-18 | Individual/Dual Sports | 2 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| | | Total | Total | | 29 |
| | | 29 | | | 29 |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|--|--------------|
| EDUC-RESA | Educational Research I | 3 | EDUC-RESB | Educational Research II | 3 |
| ELEM093 | Teaching Arts in the Elementary Grades | 3 | ELEM-ELEC1 | Teaching Multi-Grade Classes | 3 |
| ELEM103 | Pagtuturo ng Panitikan ng Pilipinas sa Elementarya | 3 | ELEM143 | Teaching English in the Elementary Grades Through Literature | 3 |
| ELEM113 | Teaching Physics, Earth, and Space Science in the Elementary Grades | 3 | ELEM153 | Teaching Math in the Intermediate Grades | 3 |
| ELEM123 | Teaching Culture and Geography in the Elementary Grades | 3 | ELEM163 | Content and Pedagogy for the Mother-Tongue | 3 |
| ELEM133 | Technology for Teaching and Learning in the Elementary Grades | 3 | ELEM173 | Teaching PE and Health in the Elementary Grades | 3 |
| GEC053 | Art Appreciation | 3 | ELEM183 | Edukasyong Pantahanan at Pangkabuhayan with Entrepreneurship | 3 |
| GEC063 | Purposive Communication | 3 | ELEM193 | Research in Education | 3 |
| LQEC143 | Letran Quality Enrichment Course 14 (Specialization Courses 1) | 3 | LQEC153 | Letran Quality Enrichment Course 15 (Specialization Courses 2) | 3 |
| Total | | 27 | Total | | 27 |

| <i>Inter-Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|
| EDUC-ST006 | Special Topics | 6 |
| LQEC163 | Letran Quality Enrichment Course 16 (Specialization Courses 3) | 3 |
| Total | | 9 |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|--|--------------|
| FS1 | Field Study 1 (Observation of Teaching Learning in Actual School Environment) | 3 | EDUC-PRC6 | Practice Teaching (Off-campus/600 hrs) | 6 |
| FS2 | Field Study 2 (participation and Teaching Assistantship) | 3 | Total | | 6 |
| Total | | 6 | | | |

GRAND TOTAL 189

BACHELOR OF SCIENCE IN ACCOUNTANCY

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|-------------------------------------|--------------|
| ActEd013 | Conceptual Framework and Accounting Standards | 3 | ActEd026A | Intermediate Accounting 1 | 6 |
| ActEd163 | Financial Markets | 3 | ActEd093 | Managerial Economics | 3 |
| Blw003 | Law on Obligations and Contracts | 3 | ActEd133 | Cost Accounting and Control | 3 |
| BusEd066 | Financial Accounting and Reporting | 6 | Blw053 | Business Laws and Regulations | 3 |
| Fil083 | Komunikasyon Sa Akademikong Filipino | 3 | Fil093 | Paganaliksik | 3 |
| GEC003 | Understanding the Self | 3 | GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | GEC033 | Mathematics in the Modern World | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | NSTP2-18 | National Service Training Program 2 | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | PE022-18 | Rhythmic Activities | 2 |
| RELED051 | The Catholic Christian Faith | 1 | | | |
| | Total | 30 | | Total | 29 |

| <i>Inter-Semester</i> | | <i>Units</i> |
|-----------------------|------------------------|--------------|
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC073 | Ethics | 3 |
| | Total | 9 |

SECOND YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|--|--------------|
| ACElec-1 | Updates in Financial Reporting Standards | 3 | ACCT223 | Accounting for Government and Non-Profit Organizations | 3 |
| ActEd026B | Intermediate Accounting 2 | 6 | ACElec-2 | Human Behavior in Organizations | 3 |
| ActEd062 | Statistical Analysis with Software Application | 2 | ActEd023C | Intermediate Accounting 3 | 3 |
| ActEd061L | Statistical Analysis with Software Application Lab | 1 | ActEd043 | Governance, Business Ethics, Risk Management, and Internal Control | 3 |
| ActEd153 | Regulatory Framework and Legal Issues in Business | 3 | ActEd053 | Economic Development | 3 |
| BusEd053 | Management Science | 3 | ActEd172 | IT Application Tools in Business | 2 |
| GEC063 | Purposive Communication | 3 | ActEd171L | IT Application Tools in Business Lab | 1 |
| LQEC283 | Letran Quality Enrichment Course 28 | 3 | Fil113 | Panitikang Filipino | 3 |
| PE032-18 | Individual/Dual Sports | 2 | PE042-18 | Team Sports | 2 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| | Total | 29 | | Total | 26 |

| <i>Inter-Semester</i> | | <i>Units</i> |
|-----------------------|-----------------------------|--------------|
| ActEd253 | Accounting Research Methods | 3 |
| Mngt253 | Strategic Management | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| | Total | 9 |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> | |
|-----------------------|-----------------------------------|--------------|------------------------|-----------------------------------|---|---|
| ACCT-RESA | Accountancy Research 1 (Proposal) | 3 | ACCT-RESB | Accountancy Research 2 (Final) | 3 | |
| ACCT-PRC6 | Accounting Internship (600 hrs) | 6 | ACCT123 | Auditing and Assurance Principles | 3 | |
| | | Total | 9 | ACCT233A | Auditing and Assurance: Concepts and Applications 1 | 3 |
| | | | | ACElec-4 | Valuation Concepts and Methods | 3 |
| | | | | ActEd072 | Accounting Information System | 2 |
| | | | | ActEd071L | Accounting Information System Lab | 1 |
| | | | | ActEd123 | Financial Management | 3 |
| | | | | ActEd183 | Strategic Cost Management | 3 |
| | | | | ActEd263 | International Business and Trade | 3 |
| | | | | Tax013B | Income Taxation | 3 |
| | | | | Total | 27 | |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|--|--------------------|
| ACCT112 | Auditing in a CIS Environment | 2 | ACCT-ST013 | Special Topics in Financial Accounting and Reporting | 3 |
| ACCT111L | Auditing in a CIS Environment Lab | 1 | ACCT-ST023 | Special Topics in Advanced Accounting | 3 |
| ACCT173 | Accounting for Special Transactions | 3 | ACCT-ST033 | Special Topics in Management Accounting and Control | 3 |
| ACCT183 | Accounting for Business Combinations | 3 | ACCT-ST043 | Special Topics in Auditing | 3 |
| ACCT233B | Auditing and Assurance: Concepts and Applications 2 | 3 | ACCT-ST053 | Special Topics in Taxation | 3 |
| ACCT243 | Auditing and Assurance: Specialized Industries | 3 | ACCT-ST063 | Special Topics in Regulatory Framework for Business Transactions | 3 |
| ACElec-3 | Operations Auditing | 3 | | | Total |
| ActEd213 | Strategic Business Analysis | 3 | | | 18 |
| Mngt263 | Operations Management (TQM) | 3 | | | GRAND TOTAL |
| Tax073 | Business Taxation | 3 | | | 213 |
| | | Total | 27 | | |

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
Major in MARKETING MANAGEMENT

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---|--------------|
| BLW003 | Law on Obligations and Contracts | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| ECO023B | Basic Microeconomics | 3 | GEC033 | Mathematics in the Modern World | 3 |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 | GEC073 | Ethics | 3 |
| GEC053 | Art Appreciation | 3 | MNGT053 | Human Resource Management | 3 |
| MKMT013 | Consumer Behavior | 3 | NSTP2-18 | National Service Training Program 2 | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | PE022-18 | Rhythmic Activities | 2 |
| PE002-18 | Physical Fitness and Related Activities | 2 | RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| RELED051 | The Catholic Christian Faith | 1 | | | |
| | Total | 21 | | Total | 20 |

SECOND YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|---|--------------|
| BusEd083 | Good Governance and Social Responsibility | 3 | GEC043 | The Contemporary World | 3 |
| FIL113 | Panitikang Filipino | 3 | MKMT043 | Professional Salesmanship | 3 |
| GEC003 | Understanding the Self | 3 | MKMT053 | Marketing Management | 3 |
| GEC013 | Science, Technology, and Society | 3 | MKMT073 | Retail Management | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | MKMT083 | Product Management | 3 |
| GEC063 | Purposive Communication | 3 | PE042-18 | Team Sports | 2 |
| PE032-18 | Individual/Dual Sports | 2 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | | | |
| | Total | 23 | | Total | 20 |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|-------------------------------------|--------------|------------------------|-------------------------------------|--------------|
| LQEC383 | Letran Quality Enrichment Course 38 | 3 | LQEC393 | Letran Quality Enrichment Course 39 | 3 |
| MKMT033 | Marketing Research | 3 | MKMT023 | Advertising | 3 |
| MKMT093 | Distribution Management | 3 | MKMT113 | Pricing Strategy | 3 |
| MKMT103 | Sales Management | 3 | MKMT123 | Digital Marketing | 3 |
| MKMT-ELEC1 | Entrepreneurial Management | 3 | MKMT-BR1 | Business Research 1 | 3 |
| MNGT253 | Strategic Management | 3 | MKMT-ELEC2 | E-Commerce and Internet Marketing | 3 |
| MNGT273 | International Business and Trade | 3 | MNGT263 | Operations Management (TQM) | 3 |
| | Total | 21 | | Total | 21 |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|-------------------------------------|--------------|------------------------|-------------------------------------|--------------|
| LQEC403 | Letran Quality Enrichment Course 40 | 3 | LQEC413 | Letran Quality Enrichment Course 41 | 3 |
| MKMT063 | Strategic Marketing Management | 3 | MKMT-PRC6 | Internship (600 hrs) | 6 |
| MKMT-BR2 | Business Research 2 | 3 | | | |
| MKMT-ELEC3 | International Marketing | 3 | | | |
| MKMT-ELEC4 | Special Topics in Marketing | 3 | | | |
| MNGT123 | Financial Management | 3 | | | |
| TAX013B | Income Taxation | 3 | | | |
| | Total | 21 | | Total | 9 |
| | | | | GRAND TOTAL | 156 |

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
Major in HUMAN RESOURCE MANAGEMENT

| FIRST YEAR | | | | | |
|-----------------------|--|--------------|------------------------|---|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| BLW003 | Law on Obligations and Contracts | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 | GEC033 | Mathematics in the Modern World | 3 |
| GEC013 | Science, Technology, and Society | 3 | GEC073 | Ethics | 3 |
| GEC053 | Art Appreciation | 3 | HRM033 | Labor Law and Legislation | 3 |
| MNGT053 | Human Resource Management | 3 | NSTP2-18 | National Service Training Program 2 | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | PE022-18 | Rhythmic Activities | 2 |
| PE002-18 | Physical Fitness and Related Activities | 2 | | Total | 17 |
| RELED051 | The Catholic Christian Faith | 1 | | | |
| | Total | 21 | | | |
| SECOND YEAR | | | | | |
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| ECO023B | Basic Microeconomics | 3 | BusEd083 | Good Governance and Social Responsibility | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | FIL113 | Panitikang Filipino | 3 |
| GEC063 | Purposive Communication | 3 | GEC003 | Understanding the Self | 3 |
| HRM023 | Administrative and Office Management | 3 | GEC043 | The Contemporary World | 3 |
| PE032-18 | Individual/Dual Sports | 2 | HRM043 | Recruitment and Selection | 3 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | PE042-18 | Team Sports | 2 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| | Total | 20 | | Total | 20 |
| THIRD YEAR | | | | | |
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| HRM053 | Employee Training and Development | 3 | BusRes013 | Business Research | 3 |
| HRM073 | Labor Relations and Negotiations | 3 | HRM063 | Performance Management System | 3 |
| HRM173 | Employee Relations and Services | 3 | HRM083 | Organization Development | 3 |
| LQEC343 | Letran Quality Enrichment Course 34 | 3 | HRM093B | Compensation Administration | 3 |
| MNGT273 | International Business and Trade | 3 | HRM-TH1 | Thesis 1 (Research Proposal) | 3 |
| TAX013B | Income Taxation | 3 | LQEC353 | Letran Quality Enrichment Course 35 | 3 |
| | Total | 18 | MNGT253 | Strategic Management | 3 |
| | | | MNGT263 | Operations Management (TQM) | 3 |
| | | | | Total | 24 |
| FOURTH YEAR | | | | | |
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| HRMELEC-1 | Entrepreneurial Management | 3 | HRM-PRC6 | Internship (600 hrs) | 6 |
| HRMELEC-2 | Managerial Accounting | 3 | LQEC373 | Letran Quality Enrichment Course 37 | 3 |
| HRMELEC-3 | Project Management | 3 | | Total | 9 |
| HRMELEC-4 | Personal Finance | 3 | | | |
| HRM212 | Human Resource Information System (HRIS) | 2 | | | |
| HRM211L | Human Resource Information System (HRIS) Lab | 1 | | | |
| HRM223 | Special Topics in Human Resource Management | 3 | | | |
| HRM-TH2 | Thesis 2 (Presentation and Submission of Research Paper) | 3 | | | |
| LQEC363 | Letran Quality Enrichment Course 36 | 3 | | | |
| | Total | 24 | | GRAND TOTAL | 153 |

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
Major in FINANCIAL MANAGEMENT

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|---|--------------|
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 | ECO023B | Basic Microeconomics | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| GEC053 | Art Appreciation | 3 | GEC003 | Understanding the Self | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | GEC073 | Ethics | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | MNGT053 | Human Resource Management | 3 |
| RELED051 | The Catholic Christian Faith | 1 | NSTP2-18 | National Service Training Program 2 | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | PE022-18 | Rhythmic Activities | 2 |
| Total | | 18 | Total | | 20 |

SECOND YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---|--------------|
| BLW003 | Law on Obligations and Contracts | 3 | FINMAN123 | Financial Management | 3 |
| BUSED083 | Good Governance and Social Responsibility | 3 | FINMAN133 | Financial Analysis and Reporting | 3 |
| FINMAN113 | Banking and Financial Institutions | 3 | GEC013 | Science, Technology, and Society | 3 |
| GEC033 | Mathematics in the Modern World | 3 | LQEC423 | Letran Quality Enrichment Course 42 | 3 |
| GEC043 | The Contemporary World | 3 | MNGT273 | International Business and Trade | 3 |
| GEC063 | Purposive Communication | 3 | PE042-18 | Team Sports | 2 |
| PE032-18 | Individual/Dual Sports | 2 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | TAX013B | Income Taxation | 3 |
| Total | | 23 | Total | | 23 |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|-------------------------------------|--------------|------------------------|--|--------------|
| BusRes013 | Business Research | 3 | FINMAN153 | Monetary Policy and Central Banking | 3 |
| FIL113 | Panitikang Filipino | 3 | FINMAN183 | Special Topics in Financial Management | 3 |
| FINMAN143 | Credit and Collection | 3 | FINMAN-ELEC2 | Entrepreneurial Management | 3 |
| FINMAN163 | Capital Market | 3 | FINMAN-TH1 | Thesis/Feasibility Study 1 | 3 |
| FINMAN-ELEC1 | Public Finance | 3 | LQEC443 | Letran Quality Enrichment Course 44 | 3 |
| LQEC433 | Letran Quality Enrichment Course 43 | 3 | Total | | 15 |
| MNGT263 | Operations Management (TQM) | 3 | Total | | 21 |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|-------------------------------------|--------------|------------------------|-------------------------------------|--------------|
| FINMAN173 | Investment and Portfolio Management | 3 | FINMAN-PRC6 | Internship (600 hrs) | 6 |
| FINMAN-ELEC3 | Risk Management | 3 | LQEC453 | Letran Quality Enrichment Course 45 | 3 |
| FINMAN-ELEC4 | Financial Controllorship | 3 | Total | | 9 |
| FINMAN-TH2 | Thesis/Feasibility Study 2 | 3 | GRAND TOTAL | | 144 |
| MNGT253 | Strategic Management | 3 | Total | | 15 |

BACHELOR OF SCIENCE IN ENTREPRENEURSHIP

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|--|--------------|
| ENTRP013 | Entrepreneurial Behavior | 3 | ENTRP033 | Programs and Policies on Enterprise Development | 3 |
| ENTRP023 | Microeconomics | 3 | FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| GEC003 | Understanding the Self | 3 | GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 | GEC053 | Art Appreciation | 3 |
| GEC043 | The Contemporary World | 3 | GEC073 | Ethics | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | NSTP2-18 | National Service Training Program 2 | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | PE022-18 | Rhythmic Activities | 2 |
| RELED051 | The Catholic Christian Faith | 1 | | | |
| | Total | 21 | | Total | 20 |

SECOND YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---|--------------|
| ENTRP043 | Opportunity Seeking | 3 | ENTRP053 | Market Research and Consumer Behavior | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | ENTRP063 | Innovation Management | 3 |
| GEC063 | Purposive Communication | 3 | ENTRP073 | Pricing and Costing | 3 |
| LQEC463 | Letran Quality Enrichment Course 46 | 3 | ENTRP083 | Human Resource Management | 3 |
| PE032-18 | Individual/Dual Sports | 2 | GEC013 | Science, Technology, and Society | 3 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | PE042-18 | Team Sports | 2 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| | Total | 20 | | Total | 20 |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|--|--------------|
| ENTRP-BP1 | Business Proposal 1 | 3 | ENTRP-BP2 | Business Proposal 2 | 3 |
| ENTRP-ELEC1 | Entrepreneurial Leadership in an Organization | 3 | ENTRP-ELEC3 | Wholesale and Retail Sales Management | 3 |
| ENTRP-ELEC2 | Supply Chain Management | 3 | ENTRP-ELEC4 | E-Commerce | 3 |
| ENTRP093 | Financial Analysis for Decision Making | 3 | ENTRP103 | Business Plan Preparation | 3 |
| FIL113 | Panitikang Filipino | 3 | ENTRP113 | International Business and Trade | 3 |
| LQEC473 | Letran Quality Enrichment Course 47 | 3 | ENTRP123 | Business Law and Taxation (Laws affecting Micro, Small & Medium Enterprises) | 3 |
| MNGT263 | Operations Management (TQM) | 3 | LQEC483 | Letran Quality Enrichment Course 48 | 3 |
| | Total | 21 | MNGT253 | Strategic Management | 3 |
| | | | | Total | 24 |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|-------------------------------------|--------------|------------------------|------------------------------------|--------------|
| ENTRP-BP3 | Business Proposal 3 | 3 | ENTRP-BP4 | Business Proposal 4 | 3 |
| ENTRP132 | Business Plan Implementation 1 | 2 | ENTRP152 | Business Plan Implementation 2 | 2 |
| ENTRP133L | Business Plan Implementation 1 Lab | 3 | ENTRP153L | Business Plan Implementation 2 Lab | 3 |
| ENTRP143 | Social Entrepreneurship | 3 | | | |
| LQEC493 | Letran Quality Enrichment Course 49 | 3 | | | |
| | Total | 14 | | Total | 8 |
| | | | | GRAND TOTAL | 148 |

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|---|--------------|
| CHM083 | Chemistry for Engineers | 3 | CoENG001L | Computer Fundamentals and Programming Lab | 1 |
| CHM081L | Chemistry for Engineers Lab | 1 | DRW051L | Computer Aided Drafting | 1 |
| DRW021L | Engineering Drawing | 1 | FIL083 | Komunikasyon sa Akademikong Filipino | 3 |
| GEC003 | Understanding the Self | 3 | GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | GEC063 | Purposive Communication | 3 |
| GEC033 | Mathematics in the Modern World | 3 | LQEC543 | Letran Quality Enrichment Course 54 | 3 |
| MATH153A | Calculus 1 | 3 | MATH153B | Calculus 2 | 3 |
| MATH323 | Engineering Data Analysis | 3 | ME001-18 | Orientation to ME | 1 |
| NSTP1-18 | National Service Training Program 1 | 3 | ME001L | Workshop Theory & Practice Lab | 1 |
| PE002-18 | Physical Fitness and Related Activities | 2 | NSTP2-18 | National Service Training Program 2 | 3 |
| | Total | 25 | PE022-18 | Rhythmic Activities | 2 |
| | | | PHY083 | Physics for Engineers | 3 |
| | | | PHY081L | Physics for Engineers Lab | 1 |
| | | | RELED051 | The Catholic Christian Faith | 1 |
| | | | Total | 29 | |

SECOND YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---|--------------|
| CoENG041L | Computer Applications for ME | 1 | EE062B | Basic Electronics | 2 |
| EE012B | Basic Electrical Engineering | 2 | EE061B-L | Basic Electronics Lab | 1 |
| EE011B-L | Basic Electrical Engineering Lab | 1 | ENGG002 | Dynamics of Rigid Bodies | 2 |
| ENGG003 | Statics of Rigid Bodies | 3 | ENGG063 | Mechanics of Deformable Bodies | 3 |
| GEC073 | Ethics | 3 | ENGG112 | Engineering Management | 2 |
| LQEC553 | Letran Quality Enrichment Course 55 | 3 | FIL113 | Panitikang Filipino | 3 |
| MATH223 | Differential Equations | 3 | ME043D | Thermodynamics II | 3 |
| ME002L | Machine Shop Theory and Practice Lab | 2 | ME071B-L1 | Mechanical Engineering Lab I | 1 |
| ME032C | Machine Elements | 2 | ME092B | Heat Transfer | 2 |
| ME031C-L | Machine Elements Lab | 1 | PE042-18 | Team Sports | 2 |
| ME043C | Thermodynamics I | 3 | RELED063 | Contemporary Issues in Christian Marriage | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | Total | 24 | |
| PE032-18 | Individual/Dual Sports | 2 | | | |
| | Total | 29 | | | |

| <i>Inter-Semester</i> | | <i>Units</i> |
|-----------------------|----------------------------------|--------------|
| EE022C | DC and AC Machinery | 2 |
| EE021C-L | DC and AC Machinery Lab | 1 |
| MATHME253 | Advanced Engineering Math for ME | 3 |
| Total | 6 | |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---|--------------|
| ENGG093 | Fluid Mechanics | 3 | ENGG103 | Engineering Economics | 3 |
| GEC043 | The Contemporary World | 3 | ENGG183 | Basic Occupational Safety and Health | 3 |
| GEC053 | Art Appreciation | 3 | ENGG193 | Technopreneurship | 3 |
| ME052B | Material Science & Engineering for ME | 2 | ME101A | Methods of Research for ME | 1 |
| ME051B-L | Material Science & Engineering for ME Lab | 1 | ME062D | Machine Design II | 2 |
| ME063C | Machine Design I | 3 | ME061D-L | Machine Design II Lab | 1 |
| ME072B-L2 | Mechanical Engineering Lab II | 2 | ME082B | Combustion Engineering | 2 |
| ME113B | Refrigeration Systems | 3 | ME123A | Fluid Machineries | 3 |
| RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 | ME132B | Vibration Engineering | 2 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | ME143C | Airconditioning and Ventilation Systems | 3 |
| | Total | 26 | ME153A | Industrial Plant Engineering and Design | 3 |
| | | | ME151A-L | Industrial Plant Engineering and Design Lab | 1 |
| | | | ME-PS1 | ME Project Study I | 1 |
| | | | Total | 28 | |
| | | | <i>Inter-Semester</i> | | <i>Units</i> |
| | | | ME221 | Manufacturing & Industrial Processes with Plant Visit | 1 |
| | | | ME221L | Manufacturing & Industrial Processes with Plant Visit Lab | 1 |
| | | | Total | 2 | |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|--|--------------|
| ME072B-L3 | Mechanical Engineering Lab III | 2 | ME-ELEC1 | Solar Energy and Wind Energy Utilization | 3 |
| ME182A | ME Laws, Ethics, Codes, and Standards | 2 | ME-ELEC2 | Energy Management System in Building | 3 |
| ME193 | Power Plant Design with Renewable Energy | 3 | ME-ST006 | Special Topics for ME | 6 |
| ME191L | Power Plant Design with Renewable Energy Lab | 1 | Total | 12 | |
| ME262 | Control Engineering | 2 | | | |
| ME261L | Control Engineering Lab | 1 | | | |
| ME-PS2 | ME Project Study II | 1 | | | |
| | Total | 12 | | | |
| | | | GRAND TOTAL | 193 | |

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|--|--------------|
| CHM081L | Chemistry for Engineers Lab | 1 | FIL083 | Komunikasyon sa Akademikong Filipino | 3 |
| CHM083 | Chemistry for Engineers | 3 | GEC013 | Science, Technology, and Society | 3 |
| DRW051L | Computer Aided Drafting | 1 | GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC003 | Understanding the Self | 3 | LQEC603 | Letran Quality Enrichment Course 60 | 3 |
| GEC033 | Mathematics in the Modern World | 3 | MATH153B | Calculus 2 | 3 |
| GEC053 | Art Appreciation | 3 | MATH323 | Engineering Data Analysis | 3 |
| GEC063 | Purposive Communication | 3 | NSTP2-18 | National Service Training Program 2 | 3 |
| MATH153A | Calculus 1 | 3 | PE022-18 | Rhythmic Activities | 2 |
| NSTP1-18 | National Service Training Program 1 | 3 | PHY083 | Physics for Engineers | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | PHY081L | Physics for Engineers Lab | 1 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | RELED051 | The Catholic Christian Faith | 1 |
| Total | | 28 | Total | | 28 |

| <i>Inter-Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|
| CoENG001L | Computer Fundamentals and Programming Lab | 1 |
| ENGG072 | Basic Thermodynamics | 2 |
| ENGG103 | Engineering Economics | 3 |
| Total | | 6 |

SECOND YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---|--------------|
| EE033A | Electrical Circuits I | 3 | EE033B | Electrical Circuits II | 3 |
| EE031A-L | Electrical Circuits I Lab | 1 | EE031B-L | Electrical Circuits II Lab | 1 |
| ENGG013 | Engineering Mechanics | 3 | EE042 | Electromagnetics | 2 |
| ENGG092 | Fluid Mechanics | 2 | EE053 | Electronic Circuits: Devices and Analysis | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | EE051L | Electronic Circuits: Devices and Analysis Lab | 1 |
| GEC043 | The Contemporary World | 3 | EE192A | EE Laws, Codes, and Professional Ethics | 2 |
| GEC073 | Ethics | 3 | EE323 | Engineering Mathematics for EE | 3 |
| LQEC613 | Letran Quality Enrichment Course 61 | 3 | ENGG062 | Fundamentals of Deformable Bodies | 2 |
| MATH223 | Differential Equations | 3 | FIL113 | Panitikang Filipino | 3 |
| PE032-18 | Individual/Dual Sports | 2 | RELED063 | Contemporary Issues in Christian Marriage | 3 |
| Total | | 26 | PE042-18 | Team Sports | 2 |
| | | | Total | | 25 |

| <i>Inter-Semester</i> | | <i>Units</i> |
|-----------------------|--------------------------------------|--------------|
| EE082 | Feedback Control Systems | 2 |
| EE122A | Electrical Machines 1 | 2 |
| ENGG183 | Basic Occupational Safety and Health | 3 |
| Total | | 7 |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---|-----------------|
| EE103B | Fundamentals of Electronic Communication: | 3 | EE093B | Power System Analysis | 3 |
| EE123B | Electrical Machines 2 | 3 | EE091B-L | Power System Analysis Lab | 1 |
| EE121B-L | Electrical Machines 2 Lab | 1 | EE112B | Instrumentation and Control | 2 |
| EE142 | Logic Circuits and Switching Theory | 2 | EE111B-L | Instrumentation and Control Lab | 1 |
| EE173A | Industrial Electronics | 3 | EE163A | Electrical Systems and Illumination Engineering Design | 3 |
| EE171A-L | Industrial Electronics Lab | 1 | EE162A-L | Electrical Systems and Illumination Engineering Design Lab | 2 |
| EE262A | Electrical Apparatus and Devices | 2 | EE201A-L | Seminars/Colloquia Lab | 1 |
| EE261A-L | Electrical Apparatus and Devices Lab | 1 | EE311L | Fundamentals of Power Plant Engineering Design Lab | 1 |
| EE321L | Electrical Standards and Practices Lab | 1 | EE332 | Distribution Systems and Substation Design | 2 |
| EE342 | Management of Engineering Projects | 2 | EE331L | Distribution Systems and Substation Design Lab | 1 |
| EE381L | Research Method Lab | 1 | EE-RP-L | Research Project Lab | 1 |
| ENGG042 | Materials Science and Engineering | 2 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| MATH302 | Numerical Methods and Analysis | 2 | | | |
| MATH301L | Numerical Methods and Analysis Lab | 1 | | | |
| | Total | 25 | | | Total 21 |

Inter-Semester

| | <i>Units</i> |
|---|--------------|
| ENGG083 Environmental Science and Engineering | 3 |
| ENGG193 Technopreneurship | 3 |
| EE232 Microprocessor Systems | 2 |
| Total | 8 |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---------------------|--------------|------------------------|-----------------------|----------------|
| EE-Elec1 | EE Elective 1 | 3 | EE-Elec2 | EE Elective 2 | 3 |
| EE-PRC3 | Practicum (300 hrs) | 3 | EE-ST006 | Special Topics for EE | 6 |
| | Total | 6 | | | Total 9 |

GRAND TOTAL 189

BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---------------------------------------|--------------|------------------------|--------------------------------------|--------------|
| CHM083 | Chemistry for Engineers | 3 | ENGG043 | Materials Science and Engineering | 3 |
| CHM081L | Chemistry for Engineers Lab | 1 | FIL083 | Komunikasyon sa Akademikong Filipino | 3 |
| DRW051L | Computer Aided Drafting | 1 | GEC043 | The Contemporary World | 3 |
| GEC003 | Understanding the Self | 3 | LQEC703 | Letran Quality Enrichment Course 70 | 3 |
| GEC013 | Science, Technology, and Society | 3 | MATH153B | Calculus 2 | 3 |
| GEC033 | Mathematics in the Modern World | 3 | MATH323 | Engineering Data Analysis | 3 |
| GEC063 | Purposive Communication | 3 | NSTP2-18 | National Service Training Program 2 | 3 |
| MATH153A | Calculus 1 | 3 | PE022-18 | Rhythmic Activities | 2 |
| NSTP1-18 | National Service Training Program 1 | 3 | PHY083 | Physics for Engineers | 3 |
| PE002-18 | Physical Fitness & Related Activities | 2 | PHY081L | Physics for Engineers Lab | 1 |
| | Total | 25 | RELED051 | The Catholic Christian Faith | 1 |
| | | | | Total | 28 |
| | | | | <i>Inter-Semester</i> | <i>Units</i> |
| | | | ENGG103 | Engineering Economics | 3 |
| | | | GEC073 | Ethics | 3 |
| | | | MATH223 | Differential Equations | 3 |
| | | | | Total | 9 |

SECOND YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|--|--------------|
| CoENG002L | Computer Fundamentals and Programming Lab | 2 | ECE013B | Circuits II | 3 |
| ECE013A | Circuits I | 3 | ECE011B-L | Circuits II Lab | 1 |
| ECE011A-L | Circuits I Lab | 1 | ECE033A | Electronics I | 3 |
| ECE024 | Electromagnetics | 4 | ECE031A-L | Electronics I Lab | 1 |
| ENGG112 | Engineering Management | 2 | ECE133B | ECE Laws, Contracts, Ethics, Standards, and Safety | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | ECE203 | Comm 1 (Principles of Communication Systems) | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | ECE201L | Comm 1 (Principles of Communication Systems Lab) | 1 |
| LQEC713 | Letran Quality Enrichment Course 71 | 3 | FIL113 | Panitikang Filipino | 3 |
| PE032-18 | Individual/Dual Sports | 2 | MATHECE253 | Advanced Engineering Mathematics for ECE | 3 |
| PHY103 | Physics | 3 | MATHECE251L | Advanced Engineering Mathematics for ECE Lab | 1 |
| PHY101L | Physics Lab | 1 | PE042-18 | Team Sports | 2 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | RELED063 | Contemporary Issues in Christian Marriage | 3 |
| | Total | 30 | | Total | 27 |
| | | | | <i>Inter-Semester</i> | <i>Units</i> |
| | | | ECE033B | Electronics II | 3 |
| | | | ECE031B-L | Electronics II Lab | 1 |
| | | | ECE383 | Methods of Research | 3 |
| | | | | Total | 7 |

| THIRD YEAR | | | | | |
|-----------------------|--|--------------|------------------------|---|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| ECE033C | Electronics III | 3 | ECE083 | Feedback and Control Systems | 3 |
| ECE031C-L | Electronics III Lab | 1 | ECE081L | Feedback and Control Systems Lab | 1 |
| ECE053B | Signals, Spectra & Signal Processing | 3 | ECE113 | Dig Electro 2: Microprocessor & Microcontroller Systems | 3 |
| ECE051B-L | Signals, Spectra & Signal Processing Lab | 1 | ECE111L | Dig Electro 2: Microprocessor & Microcontroller Systems Lab | 1 |
| ECE093 | Dig Electro 1: Logic Circuits and Switching Theory | 3 | ECE171A-L | Seminars / Colloquium Lab | 1 |
| ECE091L | Dig Electro 1: Logic Circuits and Switching Theory Lab | 1 | ECE243 | Comm 3 (Data Communications) | 3 |
| ECE223 | Comm 2 (Modulation and Coding Techniques) | 3 | ECE241L | Comm 3 (Data Communications Lab) | 1 |
| ECE221L | Comm 2 (Modulation and Coding Techniques Lab) | 1 | ECE-DPB-L | ECE Design 2 | 1 |
| ECE-DPA-L | ECE Design 1 | 1 | RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 |
| ENGG193 | Technopreneurship | 3 | | Total | 17 |
| GEC053 | Art Appreciation | 3 | | | |
| | Total | 23 | | | |
| | | | | <i>Inter-Semester</i> | <i>Units</i> |
| | | | ECE263 | Comm 4 (Transmission Media and Antenna Systems) | 3 |
| | | | ECE261L | Comm 4 (Transmission Media and Antenna Systems Lab) | 1 |
| | | | ENGG083 | Environmental Science and Engineering | 3 |
| | | | | Total | 7 |
| FOURTH YEAR | | | | | |
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| ECE-ELEC1 | ECE Elective 1 | 3 | ECE-ELEC2 | ECE Elective 2 | 3 |
| ECE-ELEC1L | ECE Elective 1 Lab | 1 | ECE-ELEC2L | ECE Elective 2 Lab | 1 |
| ECE-PRC3 | Practicum (300 hrs) | 3 | ECE-ST006 | Special Topics for ECE | 6 |
| | Total | 7 | | Total | 10 |
| | | | | GRAND TOTAL | 190 |

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

| FIRST YEAR | | | | | |
|-----------------------|--|--------------|------------------------|---|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| CHM083 | Chemistry for Engineers | 3 | CoENG002L | Computer Fundamentals and Programming Lab | 2 |
| CHM081L | Chemistry for Engineers Lab | 1 | Drw051L | Computer Aided Drafting | 1 |
| GEC013 | Science, Technology, and Society | 3 | GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 | GEC053 | Art Appreciation | 3 |
| MATH153A | Calculus 1 | 3 | LQEC503 | Letran Quality Enrichment Course 50 | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | MATH153B | Calculus 2 | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | NSTP2-18 | National Service Training Program 2 | 3 |
| RELED051 | The Catholic Christian Faith | 1 | PE022-18 | Rhythmic Activities | 2 |
| | | Total | | | 19 |
| | | | PHY083 | Physics for Engineers | 3 |
| | | | PHY081L | Physics for Engineers Lab | 1 |
| | | | Total | | 24 |
| SECOND YEAR | | | | | |
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| ECON013 | Principles of Economics | 3 | ACT033D | Financial Accounting | 3 |
| FIL083 | Komunikasyon sa Akademikong Filipino | 3 | ENGG083 | Environmental Science and Engineering | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| IE013A | Statistical Analysis for Industrial Engineers 1 | 3 | GEC003 | Understanding the Self | 3 |
| IE082A | Industrial Materials and Processes | 2 | GEC063 | Purposive Communication | 3 |
| IE081A-L | Industrial Materials and Processes Lab | 1 | IE213 | Work Study and Measurement | 3 |
| LQEC513 | Letran Quality Enrichment Course 51 | 3 | IE211L | Work Study and Measurement Lab | 1 |
| MATH223 | Differential Equations | 3 | IE253 | Advanced Mathematics for Industrial Engineering | 3 |
| PE032-18 | Individual/Dual Sports | 2 | PE042-18 | Team Sports | 2 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | Total | | 24 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | | | |
| | | Total | | | 29 |
| THIRD YEAR | | | | | |
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| ACT043D | Managerial Accounting | 3 | ENGG103 | Engineering Economics | 3 |
| ENGG013 | Engineering Mechanics | 3 | FIL113 | Panitikang Filipino | 3 |
| ENGG073 | Thermodynamics | 3 | IE013B | Statistical Analysis for Industrial Engineers 2 | 3 |
| GEC073 | Ethics | 3 | IE032B | Ergonomics 2 | 2 |
| IElec-1 | IE Elective 1 | 3 | IE031B-L | Ergonomics 2 Lab | 1 |
| IE032A | Ergonomics 1 | 2 | IE113D | Operations Research 2 | 3 |
| IE031A-L | Ergonomics 1 Lab | 1 | IE223 | Quality Management Systems | 3 |
| IE113C | Operations Research 1 | 3 | IElec-2 | IE Elective 2 | 3 |
| IE203 | Industrial Organization and Management | 3 | IE-PF | Project Feasibility | 2 |
| LQEC523 | Letran Quality Enrichment Course 52 | 3 | IE-PF-L | Project Feasibility Lab | 1 |
| | | Total | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| | | | Total | | 27 |
| | | | <i>Inter-Semester</i> | | <i>Units</i> |
| | | | IElec-3 | IE Elective 3 | 3 |
| | | | IE243 | Operations Management | 3 |
| | | | IE241L | Operations Management Lab | 1 |
| | | | Total | | 7 |
| FOURTH YEAR | | | | | |
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| EE013B | Elementary Electrical Engineering | 3 | IE-PRC6 | Practicum/Industry Immersion (600 hrs) | 6 |
| ENGG183 | Basic Occupational Safety and Health | 3 | Total | | 6 |
| ENGG193 | Technopreneurship | 3 | | | |
| IE233 | Systems Engineering | 3 | | | |
| IE263 | Supply Chain Management | 3 | | | |
| IE273 | Information Systems | 3 | | | |
| IE-CP | IE Capstone Project | 1 | | | |
| IE-CP-L | IE Capstone Project Lab | 2 | | | |
| | | Total | | | 21 |
| | | | GRAND TOTAL | | 184 |

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|---|--------------|
| CE002 | Civil Engineering Orientation | 2 | CoENG002L | Computer Fundamentals and Programming Lab | 2 |
| CHM081L | Chemistry for Engineers Lab | 1 | DRW001L | Engineering Drawing and Plans | 1 |
| CHM083 | Chemistry for Engineers | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL083 | Komunikasyon sa Akademikong Filipino | 3 | GEC043 | The Contemporary World | 3 |
| GEC013 | Science, Technology, and Society | 3 | LQEC763 | Letran Quality Enrichment Course 76 | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | MATH155B | Calculus 2 | 5 |
| GEC033 | Mathematics in the Modern World | 3 | NSTP2-18 | National Service Training Program 2 | 3 |
| MATH155A | Calculus 1 | 5 | PE022-18 | Rhythmic Activities | 2 |
| NSTP1-18 | National Service Training Program 1 | 3 | PHY081L | Physics for Engineers Lab | 1 |
| PE002-18 | Physical Fitness and Related Activities | 2 | PHY083 | Physics for Engineers | 3 |
| RELED051 | The Catholic Christian Faith | 1 | | | |
| | Total | 29 | | Total | 26 |

SECOND YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---|--------------|
| CE011L | Fundamentals of Surveying Lab | 1 | CE022 | Construction Materials and Testing | 2 |
| CE013 | Fundamentals of Surveying | 3 | CE021L | Construction Materials and Testing Lab | 1 |
| DRW051L | Computer Aided Drafting | 1 | CE043 | Highway and Railroad Engineering | 3 |
| ENGG003 | Statics of Rigid Bodies | 3 | ENGG002 | Dynamics of Rigid Bodies | 2 |
| FIL113 | Panitikang Filipino | 3 | ENGG112 | Engineering Management | 2 |
| GEC003 | Understanding the Self | 3 | ENGG064 | Mechanics of Deformable Bodies | 4 |
| GEC053 | Art Appreciation | 3 | GEC073 | Ethics | 3 |
| GEO012 | Geology for Civil Engineers | 2 | LQEC773 | Letran Quality Enrichment Course 77 | 3 |
| MATH223 | Differential Equations | 3 | MATH323 | Engineering Data Analysis | 3 |
| PE032-18 | Individual/Dual Sports | 2 | PE042-18 | Team Sports | 2 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 |
| | Total | 27 | | Total | 28 |
| | | | Inter-Semester | | Units |
| | | | CE033 | Structural Theory | 3 |
| | | | CE031L | Structural Theory Lab | 1 |
| | | | | Total | 4 |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|--|--------------|
| CE073 | Principles of Reinforced/Prestressed Concrete | 3 | CE-PJ1 | CE Project 1 | 1 |
| CE071L | Principles of Reinforced/Prestressed Concrete Lab | 1 | CE-PJ1-L | CE Project 1 Lab | 1 |
| CE082 | Hydrology | 2 | CE-SP1 | CE Specialized Course 1 | 3 |
| CE094 | Hydraulics | 4 | CE-SP2 | CE Specialized Course 2 | 3 |
| CE091L | Hydraulics Lab | 1 | CE052 | Building Systems Design | 2 |
| CE123 | Principles of Transportation Engineering | 3 | CE051L | Buliding Systems Design Lab | 1 |
| ENGG103 | Engineering Economics | 3 | CE062 | Principles of Steel Design | 2 |
| ENGG253 | Engineering Utilities 1 | 3 | CE061L | Principles of Steel Design Lab | 1 |
| ENGG263 | Engineering Utilities 2 | 3 | CE113 | Geotechnical Engg 1-Soil Mechanics | 3 |
| GEC063 | Purposive Communication | 3 | CE111L | Geotechnical Engg 1-Soil Mechanics Lab | 1 |
| MATH332 | Numerical Solutions to CE Problems | 2 | ENGG193 | Technopreneurship | 3 |
| MATH331L | Numerical Solutions to CE Problems Lab | 1 | LQEC783 | Letran Quality Enrichment Course 78 | 3 |
| Total | | 29 | Total | | 24 |

Inter-Semester

| | | <i>Units</i> |
|--------------|-------------------------------|--------------|
| CE-PRC | On-the-Job Training (300 hrs) | 2 |
| CE-PRC-L | On-the-Job Training Lab | 1 |
| Total | | 3 |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|-----------------------|--------------|
| CE-PJ2 | CE Project 2 | 1 | CE-ST112 | Special Topics for CE | 12 |
| CE-PJ2-L | CE Project 2 Lab | 1 | Total | | 12 |
| CE-SP3 | CE Specialized Course 3 | 3 | GRAND TOTAL | | |
| CE-SP4 | CE Specialized Course 4 | 3 | | | |
| CE-SP5 | CE Specialized Course 5 | 3 | | | |
| CE102 | C.E. Laws, Ethics, and Contracts | 2 | | | |
| CE131 | Quantity Surveying | 1 | | | |
| CE131L | Quantity Surveying Lab | 1 | | | |
| CE153 | Construction Methods and Project Management | 3 | | | |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | | | |
| Total | | 21 | | | |

BACHELOR OF SCIENCE IN ARCHITECTURE

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---|--------------|
| ARCHI011 | Archi Dsgn 1 - Introduction to Design | 1 | ARCHI051 | Archi Dsgn 2 - Creative Design Fundamentals | 1 |
| ARCHI011L | Archi Dsgn 1 - Introduction to Design Lab | 1 | ARCHI051L | Archi Dsgn 2 - Creative Design Fundamentals Lab | 1 |
| ARCHI021 | Archi Vis Com 1 - Graphics 1 | 1 | ARCHI061 | Archi Vis Com 3 - Graphics 2 | 1 |
| ARCHI022L | Archi Vis Com 1 - Graphics 1 Lab | 2 | ARCHI062L | Archi Vis Com 3 - Graphics 2 Lab | 2 |
| ARCHI031 | Theory of Architecture 1 | 1 | ARCHI072 | Theory of Architecture 2 | 2 |
| ARCHI031L | Theory of Architecture 1 Lab | 1 | ARCHI081 | Archi Vis Com 4 - Visual Techniques 2 | 1 |
| ARCHI041 | Archi Vis Com 2 - Visual Techniques 1 | 1 | ARCHI081L | Archi Vis Com 4 - Visual Techniques 2 Lab | 1 |
| ARCHI041L | Archi Vis Com 2 - Visual Techniques 1 Lab | 1 | ARCHI113 | Bldg Tech 1 - Building Materials | 3 |
| ARCHI132 | History of Architecture 1 | 2 | ARCHI121 | Architectural Interiors | 1 |
| GEC013 | Science, Technology and Society | 3 | ARCHI121L | Architectural Interiors Lab | 1 |
| MATH212 | Solid Mensuration | 2 | Fil083 | Komunikasyon sa Akademikong Filipino | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | GEC073 | Ethics | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | MATH183 | Differential and Integral Calculus | 3 |
| RELED051 | The Catholic Christian Faith | 1 | NSTP2-18 | National Service Training Program 2 | 3 |
| | Total | 22 | PE022-18 | Rhythmic Activities | 2 |
| | | | | Total | 28 |

SECOND YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---|--------------|
| ARCHI091 | Archi Dsgn 3 - Creative Design in Architectural Interiors | 1 | ARCHI141 | Archi Dsgn 4 - Space Planning 1 | 1 |
| ARCHI092L | Archi Dsgn 3 - Creative Design in Architectural Interiors Lab | 2 | ARCHI142L | Archi Dsgn 4 - Space Planning 1 Lab | 2 |
| ARCHI101 | Archi Vis Com 5 - Visual Techniques 3 | 1 | ARCHI152 | Bldg Tech 2 - Construction Drawings in 1-Storey Building | 2 |
| ARCHI101L | Archi Vis Com 5 - Visual Techniques 3 Lab | 1 | ARCHI151L | Bldg Tech 2 - Construction Drawings in 1-Storey Building Lab | 1 |
| ARCHI162 | Bldg Util 1 - Plumbing and Sanitary Systems | 2 | ARCHI222 | History of Architecture 3 | 2 |
| ARCHI161L | Bldg Util 1 - Plumbing and Sanitary Systems Lab | 1 | ENGG003 | Statics of Rigid Bodies | 3 |
| ARCHI172 | Tropical Design | 2 | ENGG272 | Surveying | 2 |
| ARCHI182 | History of Architecture 2 | 2 | ENGG271L | Surveying Lab | 1 |
| Fil093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | FIL113 | Panitikang Filipino | 3 |
| GEC033 | Mathematics in the Modern World | 3 | PE042-18 | Team Sports | 2 |
| LQEC823 | Letran Quality Enrichment Course 82 | 3 | RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 |
| PE032-18 | Individual/Dual Sports | 2 | | Total | 22 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | | | |
| | Total | 26 | | | |

| THIRD YEAR | | | | | |
|-----------------------|---|--------------|------------------------|--|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| ARCHI191 | Archi Dsgn 5 - Space Planning 2 | 1 | ARCHI233 | Prof Prac 1 - Laws Affecting the Practice of Architecture | 3 |
| ARCHI193L | Archi Dsgn 5 - Space Planning 2 Lab | 3 | ARCHI251 | Archi Dsgn 6 - Site Development Planning and Landscaping | 1 |
| ARCHI202 | Bldg Tech 3 - Construction Drawings in 2-Storey Building | 2 | ARCHI253L | Archi Dsgn 6 - Site Development Planning and Landscaping Lab | 3 |
| ARCHI201L | Bldg Tech 3 - Construction Drawings in 2-Storey Building Lab | 1 | ARCHI262 | Bldg Tech 4 - Specification Writing and Quantity Surveying | 2 |
| ARCHI212 | Bldg Util 2 - Electrical, Electronics, and Mechanical Systems | 2 | ARCHI261L | Bldg Tech 4 - Specification Writing and Quantity Surveying Lab | 1 |
| ARCHI211L | Bldg Util 2 - Electrical, Electronics, and Mechanical Systems Lab | 1 | ARCHI272 | Bldg Util 3 - Acoustics and Lighting Systems | 2 |
| ARCHI241 | CADD for Architecture 1 | 1 | ARCHI271L | Bldg Util 3 - Acoustics and Lighting Systems Lab | 1 |
| ARCHI241L | CADD for Architecture 1 Lab | 1 | ARCHI303 | Plan 1 - Site Planning and Landscape Architecture | 3 |
| ARCHI282 | History of Architecture 4 | 2 | ARCHI311 | CADD for Architecture 2 | 1 |
| ENGG063A | Strength of Materials | 3 | ARCHI311L | CADD for Architecture 2 Lab | 1 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | ENGG283 | Theory of Structures | 3 |
| LQEC833 | Letran Quality Enrichment Course 83 | 3 | GEC043 | The Contemporary World | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | | Total | 24 |
| | | Total | 26 | | |

| FOURTH YEAR | | | | | |
|-----------------------|--|--------------|------------------------|--|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| ARCHI293 | Prof Prac 2 - Administering the Regular Services of the Architecture | 3 | ARCHI351 | Archi Dsgn 8 - Design of Complex Structures | 1 |
| ARCHI321 | Archi Dsgn 7 - Community Architecture and Urban Design | 1 | ARCHI354L | Archi Dsgn 8 - Design of Complex Structures Lab | 4 |
| ARCHI324L | Archi Dsgn 7 - Community Architecture and Urban Design Lab | 4 | ARCHI363 | Plan 3 - Introduction to Urban and Regional Planning | 3 |
| ARCHI332 | Bldg Tech 5 - Alternative Building Construction Systems | 2 | ARCHI373 | Prof Prac 3 - Global Practice for the 21st Century | 3 |
| ARCHI331L | Bldg Tech 5 - Alternative Building Construction Systems Lab | 1 | ARCHI383 | Research Methods for Architecture | 3 |
| ARCHI343 | Plan 2 - Fundamentals of Urban Design and Community Architecture | 3 | ARCHI-SP1 | Specialization 1 | 3 |
| ENGG293 | Steel and Timber Design | 3 | ENGG303 | Architectural Structures | 3 |
| GEC003 | Understanding the Self | 3 | GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 | | Total | 23 |
| LQEC843 | Letran Quality Enrichment Course 84 | 3 | | | |
| | | Total | 26 | | |

| FIFTH YEAR | | | | | |
|-----------------------|--|--------------|------------------------|--|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| ARCHI392 | Housing | 2 | ARCHI423 | Business Management and Application for Architecture 2 | 3 |
| ARCHI403 | Business Management and Application for Architecture 1 | 3 | ARCHI431 | Archi Dsgn 10 - Thesis Research Application | 1 |
| ARCHI411 | Archi Dsgn 9 - Thesis Research Writing | 1 | ARCHI434L | Archi Dsgn 10 - Thesis Research Application Lab | 4 |
| ARCHI414L | Archi Dsgn 9 - Thesis Research Writing Lab | 4 | ARCHI-SP3 | Specialization 3 | 3 |
| ARCHI-SP2 | Specialization 2 | 3 | | Total | 11 |
| LQEC853 | Letran Quality Enrichment Course 85 | 3 | | | |
| | | Total | 16 | GRAND TOTAL | 224 |

BACHELOR OF SCIENCE IN NURSING

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>RLE</i> | <i>Units</i> |
|-----------------------|--|--------------|------------------------|---|--------------|---------------|
| AnaPhys003 | Anatomy & Physiology | 3 | CHM073 | Biochemistry | | 3 |
| AnaPhys002L | Anatomy & Physiology Lab | 2 | CHM072L | Biochemistry Lab | | 2 |
| Fil083 | Komunikasyon Sa Akademikong Filipino | 3 | Fil093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | | 3 |
| GEC003 | Understanding the Self | 3 | GEC053 | Art Appreciation | | 3 |
| GEC013 | Science, Technology, and Society | 3 | GEC063 | Purposive Communication | | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | GEC073 | Ethics | | 3 |
| GEC033 | Mathematics in the Modern World | 3 | LQEC861 | Letran Quality Enrichment Course 86 | | 1 |
| NCM100-18 | Theoretical Foundations in Nursing | 3 | McroPra063 | Microbiology & Parasitology | | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | McroPra061L | Microbiology & Parasitology Lab | | 1 |
| RELED051 | The Catholic Christian Faith | 1 | NCM101-18 | Health Assessment (HA) | | 3 |
| Total | | 26 | RLE101-18 | Related Learning Experiences (HA) | 102 | 2 |
| | | | PE022-18 | Rhythmic Activities | | 2 |
| | | | | | Total | 102 29 |

Inter-Semester

| | <i>RLE Hrs</i> | <i>Units</i> |
|--------------|--|---------------|
| LQEC872 | Letran Quality Enrichment Course 87 | 2 |
| NCM102-18 | Health Education | 3 |
| NCM103-18 | Fundamentals of Nursing Practice (FNP) | 3 |
| RLE103-18 | Related Learning Experiences (FNP) | 102 2 |
| Total | | 102 10 |

SECOND YEAR

| <i>First Semester</i> | | <i>RLE</i> | <i>Units</i> | <i>Second Semester</i> | | <i>RLE</i> | <i>Units</i> |
|-----------------------|---|------------|--------------|------------------------|---|------------|--------------|
| LQEC883 | Letran Quality Enrichment Course 88 | | 3 | GEC043 | The Contemporary World | | 3 |
| NCM104-18 | Community Health Nursing I (CHN I) | | 2 | LQEC893 | Letran Quality Enrichment Course 89 | | 3 |
| NCM105-18 | Nutrition and Diet Therapy | | 2 | NCM108-18 | Health Care Ethics | | 3 |
| NCM105L-18 | Nutrition and Diet Therapy Lab | | 1 | NCM109-18 | Care of Mother and Child at Risk or With Problems | | 6 |
| NCM106-18 | Pharmacology | | 3 | NSTP2-18 | National Service Training Program 2 | | 3 |
| NCM107-18 | Care of Mother, Child, Adolescent (Well Client) | | 4 | PE042-18 | Team Sports | | 2 |
| NSTP1-18 | National Service Training Program 1 | | 3 | RELED073 | Contemporary Issues about Church and Human Society with Immersion | | 3 |
| PE032-18 | Individual/Dual Sports | | 2 | RLE109-18 | Related Learning Experiences (MCN II) | 306 | 6 |
| RELED063 | Contemporary Issues in Christian Marriage | | 3 | Total | | 306 | 29 |
| RLE104-18 | Related Learning Experiences (CHN I) | 102 | 2 | | | | |
| RLE107-18 | Related Learning Experiences (MCN I) | 255 | 5 | | | | |
| Total | | 357 | 30 | | | | |

Inter-Semester

| | <i>Units</i> | |
|--------------|-----------------------------|----------|
| FIL113 | Panitikang Filipino | 3 |
| NCM110-18 | Nursing Informatics | 2 |
| NCM110L-18 | Nursing Informatics Lab | 1 |
| Phi093N | Logic and Critical Thinking | 3 |
| Total | | 9 |

BACHELOR OF SCIENCE IN NURSING

THIRD YEAR

| <i>First Semester</i> | | <i>RLE</i> | <i>Units</i> | <i>Second Semester</i> | | <i>RLE</i> | <i>Units</i> |
|-----------------------|---|------------|--------------|------------------------|--|------------|--------------|
| LQEC903 | Letran Quality Enrichment Course 90 | | 3 | LQEC913 | Letran Quality Enrichment Course 91 | | 3 |
| NCM111-18 | Nursing Research I | | 2 | NCM116-18 | Care of Clients with Problems in Nutrition, GI | | 5 |
| NCM112-18 | Care of Clients with Problems in Oxygenation, Fluids and Electrolyte, Infectious, Inflammatory and Immunologic Response, Cellular Aberration, | | 8 | NCM117-18 | Care of Clients with Maladaptive Patterns of Behavior, Acute and Chronic | | 4 |
| NCM113-18 | Community Health Nursing II (CHN II) Population Groups and Community as Clients | | 2 | RLE115-18 | RLE - Nursing Research II | 102 | 2 |
| NCM114-18 | Care of the Older Person | | 2 | RLE116-18 | Related Learning Experiences (MS II) | 204 | 4 |
| RLE111-18 | RLE - Nursing Research I | 51 | 1 | RLE117-18 | Related Learning Experiences (PSYCH) | 204 | 4 |
| RLE112-18 | Related Learning Experiences (MS I) | 306 | 6 | | Total | 510 | 22 |
| RLE113-18 | Related Learning Experiences (CHN II) | 51 | 1 | | | | |
| RLE114-18 | Related Learning Experiences (COP) | 51 | 1 | | | | |
| | Total | 459 | 26 | | | | |

FOURTH YEAR

| <i>First Semester</i> | | <i>RLE</i> | <i>Units</i> | <i>Second Semester</i> | | <i>RLE</i> | <i>Units</i> |
|-----------------------|--|------------|--------------|------------------------|--|------------|--------------|
| LQEC923 | Letran Quality Enrichment Course 92 | | 3 | NCEP006 | Nursing Comprehensive Enhancement Program | | 6 |
| NCM118-18 | Nursing Care of Clients with Life Threatening | | 4 | NCM121-18 | Disaster Preparedness Nursing | | 2 |
| NCM119-18 | Nursing Leadership and Management | | 4 | NCM122-18 | Intensive Nursing Practicum (Hospital and Community Setting) | 408 | 8 |
| NCM120-18 | Decent Work Employment and Transcultural Nursing | | 3 | RLE121-18 | Related Learning Experiences (DN) | 51 | 1 |
| RLE118-18 | Related Learning Experiences (EN) | 255 | 5 | | Total | 459 | 17 |
| RLE119-18 | Related Learning Experiences (NLM) | 153 | 3 | | | | |
| RZL023 | Buhay at Mga Akda ni Rizal | | 3 | | | | |
| | Total | 408 | 25 | | | | |

GRAND TOTAL 223

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

| FIRST YEAR | | | | | |
|-----------------------|---|--------------|------------------------|---|--------------|
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| COMP303 | Introduction to Computing | 3 | COMP042 | Data Structures and Algorithms | 2 |
| COMP312 | Computer Programming I | 2 | COMP041L | Data Structures and Algorithms Lab | 1 |
| COMP311L | Computer Programming I Lab | 1 | COMP332 | Computer Programming II | 2 |
| CSIT332 | Intro to Human Computer Interaction | 2 | COMP331L | Computer Programming II Lab | 1 |
| CSIT331L | Intro to Human Computer Interaction Lab | 1 | FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| GEC063 | Purposive Communication | 3 | GEC003 | Understanding the Self | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | GEC073 | Ethics | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | MATH283 | Discrete Mathematics | 3 |
| RELED051 | The Catholic Christian Faith | 1 | NSTP2-18 | National Service Training Program 2 | 3 |
| | Total | 18 | PE022-18 | Rythmic Activities | 2 |
| | | | Total | | 23 |
| SECOND YEAR | | | | | |
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| COMP112 | Information Management | 2 | CSIT111B-L | Web Technologies II | 1 |
| COMP111L | Information Management Lab | 1 | CSIT252B | Networking II | 2 |
| CSIT111A-L | Web Technologies I | 1 | CSIT251B-L | Networking II Lab | 1 |
| CSIT132 | Quantitative Methods | 2 | CSIT312 | Database Systems | 2 |
| CSIT131L | Quantitative Methods Lab | 1 | CSIT311L | Database Systems Lab | 1 |
| CSIT252A | Networking I | 2 | CSIT372 | Integrative Programming and Technologies I | 2 |
| CSIT251A-L | Networking I Lab | 1 | CSIT371L | Integrative Programming and Technologies I Lab | 1 |
| CSIT362A | Object Oriented Programming I | 2 | CSIT401A-L | Robotics I | 1 |
| CSIT361A-L | Object Oriented Programming I Lab | 1 | GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | ITELEC-1 | IT Elective 1 | 3 |
| GEC053 | Art Appreciation | 3 | LQEC971 | Letran Quality Enrichment Course 97 | 1 |
| PE032-18 | Individual/Dual Sports | 2 | PE042-18 | Team Sports | 2 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| | Total | 24 | | Total | 23 |
| THIRD YEAR | | | | | |
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| CSIT121A-L | Mobile Programming I | 1 | COMP462 | Applications Development and Emerging Technologies | 2 |
| CSIT173 | System Analysis and Design | 3 | COMP461L | Applications Development and Emerging Technologies Lab | 1 |
| CSIT342A | Information Assurance and Security I | 2 | CSIT121B-L | Mobile Programming II | 1 |
| CSIT341A-L | Information Assurance and Security I Lab | 1 | CSIT202 | Systems Integration and Architecture | 2 |
| CSIT362B | Object-Oriented Programming II | 2 | CSIT201L | Systems Integration and Architecture Lab | 1 |
| CSIT361B-L | Object-Oriented Programming II Lab | 1 | CSIT342B | Information Assurance and Security II | 2 |
| CSIT401B-L | Robotics II | 1 | CSIT341B-L | Information Assurance and Security II Lab | 1 |
| FIL113 | Panitikang Filipino | 3 | CSIT423 | Systems Administration and Maintenance | 3 |
| GEC033 | Mathematics and the Modern World | 3 | GEC013 | Science, Technology, and Society | 3 |
| GEC043 | Contemporary World | 3 | ITELEC-3 | IT Elective 3 | 3 |
| ITELEC-2 | IT Elective 2 | 3 | LQEC991 | Letran Quality Enrichment Course 99 | 1 |
| LQEC981 | Letran Quality Enrichment Course 98 | 1 | RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| | Total | 24 | | Total | 23 |
| | | | | <i>Inter-Semester</i> | <i>Units</i> |
| | | | IT-CP1 | Capstone Project I | 3 |
| | | | Total | | 3 |
| FOURTH YEAR | | | | | |
| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
| CSIT183 | Social Issues and Professional Practice | 3 | IT-PRC6 | Practicum (600 hrs) | 6 |
| IT-CP2 | Capstone Project II | 3 | Total | | 6 |
| ITElec-4 | IT Elective 4 | 3 | | | |
| LQEC1001 | Letran Quality Enrichment Course 100 | 1 | | | |
| | Total | 10 | | GRAND TOTAL | 154 |

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

| FIRST YEAR | | | | | |
|-----------------------|--|--------------|------------------------|---|--------------------|
| <i>First Semester</i> | | | <i>Second Semester</i> | | |
| | | <i>Units</i> | | | <i>Units</i> |
| COMP303 | Introduction to Computing | 3 | COMP042 | Data Structures and Algorithms | 2 |
| COMP312 | Computer Programming I | 2 | COMP041L | Data Structures and Algorithms Lab | 1 |
| COMP311L | Computer Programming I Lab | 1 | COMP332 | Computer Programming II | 2 |
| CSIT332 | Intro to Human Computer Interaction | 2 | COMP331L | Computer Programming II Lab | 1 |
| CSIT331L | Intro to Human Computer Interaction Lab | 1 | FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| GEC063 | Purposive Communication | 3 | GEC003 | Understanding the Self | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | GEC073 | Ethics | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | LQEC931 | Letran Quality Enrichment Course 93 | 1 |
| RELED051 | The Catholic Christian Faith | 1 | NSTP2-18 | National Service Training Program 2 | 3 |
| | | Total | | | 18 |
| | | | PE022-18 | Rythmic Activities | 2 |
| | | | | | Total |
| | | | | | 21 |
| SECOND YEAR | | | | | |
| <i>First Semester</i> | | | <i>Second Semester</i> | | |
| | | <i>Units</i> | | | <i>Units</i> |
| COMP112 | Information Management | 2 | CSIT142A | Software Engineering I | 2 |
| COMP111L | Information Management Lab | 1 | CSIT141A-L | Software Engineering I Lab | 1 |
| CSIT252 | Networking | 2 | CSIT153 | Algorithms and Complexity | 3 |
| CSIT251L | Networking Lab | 1 | CSIT163 | Architecture and Organization | 3 |
| CSIT323A | Discrete Structures I | 3 | CSIT401A-L | Robotics I | 1 |
| CSIT362 | Object-Oriented Programming | 2 | GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| CSIT361L | Object-Oriented Programming Lab | 1 | LQEC941 | Letran Quality Enrichment Course 94 | 1 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | MATH195 | Integral Calculus with Differential Equation | 5 |
| GEC053 | Art Appreciation | 3 | PE042-18 | Team Sports | 2 |
| MATH065 | Differential Calculus with Analytic Geometry | 5 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| PE032-18 | Individual/Dual Sports | 2 | | | Total |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | | | 24 |
| | | Total | | | 28 |
| THIRD YEAR | | | | | |
| <i>First Semester</i> | | | <i>Second Semester</i> | | |
| | | <i>Units</i> | | | <i>Units</i> |
| CSElec-1 | CS Elective 1 | 3 | COMP462 | Applications Development & Emerging Technologies | 2 |
| CSIT142B | Software Engineering II | 2 | COMP461L | Applications Development & Emerging Technologies Lab | 1 |
| CSIT141B-L | Software Engineering II Lab | 1 | CSElec-2 | CS Elective 2 | 3 |
| CSIT323B | Discrete Structures II | 3 | CSIT192 | Operating Systems | 2 |
| CSIT392 | Programming Languages | 2 | CSIT191L | Operating Systems Lab | 1 |
| CSIT391L | Programming Languages Lab | 1 | CSIT273 | Automata Theory and Formal Languages | 3 |
| CSIT401B-L | Robotics II | 1 | CSIT342 | Information Assurance and Security | 2 |
| FIL113 | Panitikang Filipino | 3 | CSIT341L | Information Assurance and Security Lab | 1 |
| GEC033 | Mathematics in the Modern World | 3 | CSIT382 | Software Quality Assurance | 2 |
| GEC043 | Contemporary World | 3 | CSIT381L | Software Quality Assurance Lab | 1 |
| | | Total | GEC013 | Science, Technology, and Society | 3 |
| | | 22 | LQEC951 | Letran Quality Enrichment Course 95 | 1 |
| | | | | | Total |
| | | | | | 22 |
| | | | <i>Inter-Semester</i> | | <i>Units</i> |
| | | | CS-THS1 | CS Thesis I | 3 |
| | | | | | Total |
| | | | | | 3 |
| FOURTH YEAR | | | | | |
| <i>First Semester</i> | | | <i>Second Semester</i> | | |
| | | <i>Units</i> | | | <i>Units</i> |
| CSElec-3 | CS Elective 3 | 3 | CS-PRC6 | Internship (600 hrs) | 6 |
| CSIT183 | Social Issues and Professional Practice | 3 | | | Total |
| CS-THS2 | CS Thesis II | 3 | | | 6 |
| LQEC961 | Letran Quality Enrichment Course 96 | 1 | | | |
| MATH293 | Probability and Statistics | 3 | | | |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | | | |
| | | Total | | | |
| | | 16 | | | |
| | | | | | GRAND TOTAL |
| | | | | | 160 |

BACHELOR OF SCIENCE IN ENTERTAINMENT AND MULTIMEDIA COMPUTING
Specializing in DIGITAL ANIMATION TECHNOLOGY

| FIRST YEAR | | | | | |
|-------------------|---|-----------------|----------|---|--------------|
| | <i>First Semester</i> | <i>Units</i> | | <i>Second Semester</i> | <i>Units</i> |
| COMP303 | Introduction to Computing | 3 | COMP042 | Data Structures and Algorithms | 2 |
| COMP312 | Computer Programming I | 2 | COMP041L | Data Structures and Algorithms Lab | 1 |
| COMP311L | Computer Programming I Lab | 1 | COMP332 | Computer Programming II | 2 |
| EMCT002 | Freehand and Digital Drawing | 2 | COMP331L | Computer Programming II Lab | 1 |
| EMCT001L | Freehand and Digital Drawing Lab | 1 | EMCT012 | Introduction to Game Design and Development | 2 |
| GEC063 | Purposive Communication | 3 | EMCT011L | Introduction to Game Design and Development Lab | 1 |
| NSTP1-18 | National Service Training Program 1 | 3 | FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | GEC003 | Understanding the Self | 3 |
| RELED051 | The Catholic Christian Faith | 1 | GEC073 | Ethics | 3 |
| | | Total 18 | NSTP2-18 | National Service Training Program 2 | 3 |
| | | | PE022-18 | Rythmic Activities | 2 |
| | | | | Total | 23 |

| SECOND YEAR | | | | | |
|--------------------|---|-----------------|----------|---|--------------|
| | <i>First Semester</i> | <i>Units</i> | | <i>Second Semester</i> | <i>Units</i> |
| COMP112 | Information Management | 2 | COMP462 | Applications Development & Emerging Technologies | 2 |
| COMP111L | Information Management Lab | 1 | COMP461L | Applications Development & Emerging Technologies Lab | 1 |
| EMCT023 | Usability, HCI, UI Design | 3 | DATC012 | Image and Video Processing | 2 |
| EMCT032 | Computer Graphics Programming | 2 | DATC011L | Image and Video Processing Lab | 1 |
| EMCT031L | Computer Graphics Programming Lab | 1 | DATC022 | Advanced 2D Animation | 2 |
| EMCT042 | Principles of 2D Animation | 2 | DATC021L | Advanced 2D Animation Lab | 1 |
| EMCT041L | Principles of 2D Animation Lab | 1 | DATC052 | Modelling and Rigging | 2 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | DATC051L | Modelling and Rigging Lab | 1 |
| GEC053 | Art Appreciation | 3 | FIL113 | Panitikang Filipino | 3 |
| LQEC1011 | Letran Quality Enrichment Course 101 | 1 | GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| PE032-18 | Individual/Dual Sports | 2 | PE042-18 | Team Sports | 2 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| | | Total 24 | | Total | 23 |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|---|--------------|
| DATC082 | Texture and Mapping | 2 | DATC032 | Lighting and Effects | 2 |
| DATC081L | Texture and Mapping Lab | 1 | DATC031L | Lighting and Effects Lab | 1 |
| EMCT052 | Audio Design and Sound Engineering | 2 | DATC042 | Compositing and Rendering | 2 |
| EMCT051L | Audio Design and Sound Engineering Lab | 1 | DATC041L | Compositing and Rendering Lab | 1 |
| EMCT062 | Script Writing and Storyboard Design | 2 | DATC062 | Advanced 3D Animation and Scripting | 2 |
| EMCT061L | Script Writing and Storyboard Design Lab | 1 | DATC061L | Advanced 3D Animation and Scripting Lab | 1 |
| EMCT072 | Principles of 3D Animation | 2 | DATC072 | Advanced Sound Production | 2 |
| EMCT071L | Principles of 3D Animation Lab | 1 | DATC071L | Advanced Sound Production Lab | 1 |
| EMCT083 | Design and Production Process | 3 | EMC-ELEC022 | EMC Elective 2 | 2 |
| EMC-ELEC012 | EMC Elective 1 | 2 | EMC-ELEC021L | EMC Elective 2 Lab | 1 |
| EMC-ELEC011L | EMC Elective 1 Lab | 1 | GEC013 | Science, Technology, and Society | 3 |
| GEC033 | Mathematics in the Modern World | 3 | LQEC1031 | Letran Quality Enrichment Course 103 | 1 |
| GEC043 | Contemporary World | 3 | | | |
| LQEC1021 | Letran Quality Enrichment Course 102 | 1 | | | |
| | | Total | | | 19 |
| | | 25 | | | |

| <i>Inter-Semester</i> | | <i>Units</i> |
|-----------------------|--------------------|--------------|
| DATC-CP1 | Capstone Project 1 | 3 |
| | | 3 |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--------------------------------------|--------------|------------------------|----------------------|--------------|
| DATC-CP2 | Capstone Project 2 | 3 | DATC-PRC6 | Internship (600 hrs) | 9 |
| DATC092 | Animation Design and Production | 2 | | | |
| DATC091L | Animation Design and Production Lab | 1 | | | |
| EMC-ELEC032 | EMC Elective 3 | 2 | | | |
| EMC-ELEC031L | EMC Elective 3 Lab | 1 | | | |
| LQEC1041 | Letran Quality Enrichment Course 104 | 1 | | | |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | | | |
| | | Total | | | 13 |
| | | | | GRAND TOTAL | 157 |

BACHELOR OF SCIENCE IN ENTERTAINMENT AND MULTIMEDIA COMPUTING
Specializing in GAME DEVELOPMENT

| FIRST YEAR | | | | | |
|------------|---|--------------|--------------|---|--------------|
| | <i>First Semester</i> | <i>Units</i> | | <i>Second Semester</i> | <i>Units</i> |
| COMP303 | Introduction to Computing | 3 | COMP042 | Data Structures and Algorithms | 2 |
| COMP312 | Computer Programming I | 2 | COMP041L | Data Structures and Algorithms Lab | 1 |
| COMP311L | Computer Programming I Lab | 1 | COMP332 | Computer Programming II | 2 |
| EMCT002 | Freehand and Digital Drawing | 2 | COMP331L | Computer Programming II Lab | 1 |
| EMCT001L | Freehand and Digital Drawing Lab | 1 | EMCT012 | Introduction to Game Design and Development | 2 |
| GEC063 | Purposive Communication | 3 | EMCT011L | Introduction to Game Design and Development Lab | 1 |
| NSTP1-18 | National Service Training Program 1 | 3 | FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| PE002-18 | Physical Fitness and Related Activities | 2 | GEC003 | Understanding the Self | 3 |
| RELED051 | The Catholic Christian Faith | 1 | GEC073 | Ethics | 3 |
| | Total | 18 | LQEC1051 | Letran Quality Enrichment Course 105 | 1 |
| | | | NSTP2-18 | National Service Training Program 2 | 3 |
| | | | PE022-18 | Rythmic Activities | 2 |
| | | | Total | 24 | |

| SECOND YEAR | | | | | |
|-------------|---|--------------|--------------|---|--------------|
| | <i>First Semester</i> | <i>Units</i> | | <i>Second Semester</i> | <i>Units</i> |
| COMP112 | Information Management | 2 | COMP462 | Applications Development & Emerging Technologies | 2 |
| COMP111L | Information Management Lab | 1 | COMP461L | Applications Development & Emerging Technologies Lab | 1 |
| EMCT023 | Usability, HCI, UI Design | 3 | GDVT022 | Game Programming II | 2 |
| EMCT032 | Computer Graphics Programming | 2 | GDVT021L | Game Programming II Lab | 1 |
| EMCT031L | Computer Graphics Programming Lab | 1 | GDVT072 | Advanced Game Design | 2 |
| EMCT042 | Principles of 2D Animation | 2 | GDVT071L | Advanced Game Design Lab | 1 |
| EMCT041L | Principles of 2D Animation Lab | 1 | GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GDVT012 | Game Programming I | 2 | LQEC1061 | Letran Quality Enrichment Course 106 | 1 |
| GDVT011L | Game Programming I Lab | 1 | PE042-18 | Team Sports | 2 |
| GEC053 | Art Appreciation | 3 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | Total | 18 | |
| PE032-18 | Individual/Dual Sports | 2 | | | |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | | | |
| | Total | 26 | | | |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|--------------------------------------|-----------------|
| EMCT052 | Audio Design and Sound Engineering | 2 | EMCT083 | Design and Production Process | 3 |
| EMCT051L | Audio Design and Sound Engineering Lab | 1 | EMC-ELEC022 | EMC Elective 2 | 2 |
| EMCT062 | Script Writing and Storyboard Design | 2 | EMC-ELEC021L | EMC Elective 2 Lab | 1 |
| EMCT061L | Script Writing and Storyboard Design Lab | 1 | FIL113 | Panitikang Filipino | 3 |
| EMCT072 | Principles of 3D Animation | 2 | GDVT042 | Applied Game Physics | 2 |
| EMCT071L | Principles of 3D Animation Lab | 1 | GDVT041L | Applied Game Physics Lab | 1 |
| EMC-ELEC012 | EMC Elective 1 | 2 | GDVT062 | Artificial Intelligence in Games | 2 |
| EMC-ELEC011L | EMC Elective 1 Lab | 1 | GDVT061L | Artificial Intelligence in Games Lab | 1 |
| GDVT032 | Applied Mathematics for Games | 2 | GDVT082 | Game Networking | 2 |
| GDVT031L | Applied Mathematics for Games Lab | 1 | GDVT081L | Game Networking Lab | 1 |
| GDVT052 | Game Programming III | 2 | GEC013 | Science, Technology, and Society | 3 |
| GDVT051L | Game Programming III Lab | 1 | LQEC1071 | Letran Quality Enrichment Course 107 | 1 |
| GEC033 | Mathematics in the Modern World | 3 | | | Total 22 |
| GEC043 | Contemporary World | 3 | | | |
| | Total | 24 | | | |
| | | | | <i>Inter-Semester</i> | <i>Units</i> |
| | | | GDVT-CP1 | Capstone Project 1 | 3 |
| | | | | Total | 3 |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--------------------------------------|--------------|------------------------|----------------------|----------------|
| EMC-ELEC032 | EMC Elective 3 | 2 | GDVT-PRC6 | Internship (600 hrs) | 9 |
| EMC-ELEC031L | EMC Elective 3 Lab | 1 | | | Total 9 |
| GDVT-CP2 | Capstone Project 2 | 3 | | | |
| GDVT092 | Game Production | 2 | | | |
| GDVT091L | Game Production Lab | 1 | | | |
| LQEC1081 | Letran Quality Enrichment Course 108 | 1 | | | |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | | | |
| | Total | 13 | | | |
| | | | | GRAND TOTAL | 157 |

BACHELOR OF SCIENCE IN HOSPITALITY MANAGEMENT

| FIRST YEAR | | | | | |
|-----------------------|--|--------------|------------------------|--|--------------|
| <i>First Semester</i> | | | <i>Second Semester</i> | | |
| | | <i>Units</i> | | | <i>Units</i> |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| GEC003 | Understanding the Self | 3 | GEC043 | The Contemporary World | 3 |
| GEC023 | Mga Babasahin Hingil sa Kasaysayan ng Pilipinas | 3 | GEC063 | Purposive Communication | 3 |
| GEC033 | Mathematics in the Modern World | 3 | GEC073 | Ethics | 3 |
| NSTP1-18 | National Service Training Program 1 | 3 | HM061 | Kitchen Essential and Basic Food Preparation | 1 |
| PE002-18 | Physical Fitness and Related Activities | 2 | HM062L | Kitchen Essential and Basic Food Preparation Lab | 2 |
| RELED051 | The Catholic Christian Faith | 1 | HM102 | Fundamentals in Lodging Operations | 2 |
| TH003 | Macro Perspective of Tourism and Hospitality | 3 | HM101L | Fundamentals in Lodging Operations Lab | 1 |
| TH033 | Risk Management as Applied to Safety, Security, and Sanitation | 3 | NSTP2-18 | National Service Training Program 2 | 3 |
| | Total | 24 | PDHI013 | Personality Development for Hospitality Industry | 3 |
| | | | PE022-18 | Rhythmic Activities | 2 |
| | | | TH013 | Micro Perspective of Tourism and Hospitality | 3 |
| | | | Total | 29 | |

| SECOND YEAR | | | | | |
|-----------------------|--|--------------|------------------------|--|--------------|
| <i>First Semester</i> | | | <i>Second Semester</i> | | |
| | | <i>Units</i> | | | <i>Units</i> |
| GEC013 | Science, Technology, and Society | 3 | BMC143 | Operation Management in Tourism and Hospitality Industry | 3 |
| HM072 | Fundamentals in Food Service Operation | 2 | FIL113 | Panitikang Filipino | 3 |
| HM071L | Fundamentals in Food Service Operation Lab | 1 | GEC053 | Art Appreciation | 3 |
| HM132 | Applied Business Tools and Technologies | 2 | HMElec-1 | Front Office Operation | 3 |
| HM131L | Applied Business Tools and Technologies Lab | 1 | HMElec-2 | Quick Food Service Operation | 3 |
| LQEC1093 | Letran Quality Enrichment Course 109 | 3 | HM183 | Tourism Research, Methods, and Techniques | 3 |
| PE032-18 | Individual/Dual Sports | 2 | LQEC1103 | Letran Quality Enrichment Course 110 | 3 |
| TH023 | Professional Development and Applied Ethics | 3 | PE042-18 | Team Sports | 2 |
| TH053 | Quality Service Management in Tourism and Hospitality Industry | 3 | RELED063 | Contemporary Issues in Christian Marriage | 3 |
| TH083 | Philippine Culture and Tourism Geography | 3 | TH103 | Entrepreneurship in Tourism and Hospitality | 3 |
| TH143 | Tourism and Hospitality Marketing | 3 | Total | 29 | |
| | Total | 26 | | | |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|--|--------------|------------------------|--|--------------|
| BMC253 | Strategic Management and TQM in Tourism and Hospitality Industry | 3 | FL063B | Japanese Language 2 | 3 |
| FL063A | Japanese Language 1 | 3 | HM152 | Ergonomics and Facilities Planning for the Hospitality Industry | 2 |
| HMElec-3 | Catering Management | 1 | HM151L | Ergonomics and Facilities Planning for the Hospitality Industry Lab | 1 |
| HMElec-3L | Catering Management Lab | 2 | HM172 | Introduction to Meeting Incentives, Conferences and Events Management (MICE) | 2 |
| HMElec-4 | Revenue Management | 3 | HM171L | Introduction to Meeting Incentives, Conferences and Events Management (MICE) Lab | 1 |
| HMElec-5 | Gastronomy (Food and Culture) | 1 | HM-RESB | Research in Hospitality II | 3 |
| HMElec-5L | Gastronomy (Food and Culture) Lab | 2 | LQEC1123 | Letran Quality Enrichment Course 112 | 3 |
| HM113 | Supply Chain Management in Hospitality Industry | 3 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| HM-RESA | Research in Hospitality I | 3 | RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| LQEC1113 | Letran Quality Enrichment Course 111 | 3 | TH073 | Multicultural Diversity in Workplace for the Tourism Professional | 3 |
| TH093 | Legal Aspects in Tourism and Hospitality | 3 | | Total | 24 |
| | Total | 27 | | | |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|-----------------------|--------------|------------------------|------------------------|--------------|
| HM-PRC6-A | Practicum I (600 hrs) | 6 | HM-PRC6-B | Practicum II (600 hrs) | 6 |
| | Total | 6 | | Total | 6 |
| | | | | GRAND TOTAL | 171 |

BACHELOR OF SCIENCE IN TOURISM MANAGEMENT

FIRST YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> | |
|-----------------------|--|--------------|------------------------|--|---|---|
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 | FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | |
| GEC003 | Understanding the Self | 3 | GEC033 | Mathematics in the Modern World | 3 | |
| GEC023 | Mga Babasahin Hingil sa Kasaysayan ng Pilipinas | 3 | NSTP2-18 | National Service Training Program 2 | 3 | |
| NSTP1-18 | National Service Training Program 1 | 3 | PDHI013 | Personality Development for Hospitality Industry | 3 | |
| PE002-18 | Physical Fitness and Related Activities | 2 | PE022-18 | Rhythmic Activities | 2 | |
| TH003 | Macro Perspective of Tourism and Hospitality | 3 | RELED051 | The Catholic Christian Faith | 1 | |
| TH033 | Risk Management as Applied to Safety, Security, and Sanitation | 3 | TH013 | Micro Perspective of Tourism and Hospitality | 3 | |
| | | Total | 20 | TH053 | Quality Service Management in Tourism and Hospitality | 3 |
| | | | | TMElec-1 | Philippine Gastronomical Tourism | 1 |
| | | | | TMElec-1L | Philippine Gastronomical Tourism Lab | 2 |
| | | | | Total | 24 | |

SECOND YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> | |
|-----------------------|--|--------------|------------------------|--|--------------|---|
| GEC013 | Science, Technology, and Society | 3 | BMC143 | Operation Management in Tourism and Hospitality Industry | 3 | |
| GEC053 | Art Appreciation | 3 | GEC043 | The Contemporary World | 3 | |
| GEC063 | Purposive Communication | 3 | LQEC1133 | Letran Quality Enrichment Course 113 | 3 | |
| GEC073 | Ethics | 3 | PE042-18 | Team Sports | 2 | |
| PE032-18 | Individual/Dual Sports | 2 | RELED063 | Contemporary Issues in Christian Marriage | 3 | |
| TH083 | Philippine Culture and Tourism Geography | 3 | RZL023 | Buhay at Mga Akda ni Rizal | 3 | |
| TH143 | Tourism and Hospitality Marketing | 3 | TM123 | Tour and Travel Management | 3 | |
| TMElec-2 | Agri-Tourism | 3 | TM132 | Applied Business Tools and Technologies for Tourism | 2 | |
| TMElec-3 | Cruise Tourism | 3 | TM131L | Applied Business Tools and Technologies for Tourism Lab | 1 | |
| | | Total | 26 | TMElec-4 | Tour Guiding | 3 |
| | | | | Total | 26 | |

THIRD YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> | |
|-----------------------|---|--------------|------------------------|---|--------------------|---|
| FL073 | Foreign Language I | 3 | BMC253 | Strategic Management and TQM in Tourism and Hospitality Industry | 3 | |
| LQEC1143 | Letran Quality Enrichment Course 114 | 3 | FIL113 | Panitikang Filipino | 3 | |
| TH103 | Entrepreneurship in Tourism and Hospitality | 3 | FL083 | Foreign Language II | 3 | |
| TM083F | Global Culture and Tourism Geography | 3 | LQEC1153 | Letran Quality Enrichment Course 115 | 3 | |
| TM183B | Tourism Research, Methods, and Techniques | 3 | RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 | |
| TM203 | Sustainable Tourism | 3 | TH023 | Professional Development and Applied Ethics | 3 | |
| TMElec-5 | Heritage Tourism | 3 | TM163B | Transportation Management | 3 | |
| TMElec-6 | Accommodation Operations and Management | 3 | TMElec-7 | Recreational and Leisure Management | 3 | |
| | | Total | 24 | TM-RP1 | Research Project I | 3 |
| | | | | Total | 27 | |

FOURTH YEAR

| <i>First Semester</i> | | <i>Units</i> | <i>Second Semester</i> | | <i>Units</i> |
|-----------------------|---|--------------|------------------------|---------------------|--------------|
| FL093 | Foreign Language III | 3 | TM-PRC7 | Practicum (700 hrs) | 7 |
| LQEC1163 | Letran Quality Enrichment Course 116 | 3 | Total | 7 | |
| TH073 | Multicultural Diversity in Workplace for the Tourism Professional | 3 | | | |
| TH093 | Legal Aspects in Tourism and Hospitality | 3 | | | |
| TM172 | Introduction to Meeting Incentives Conferences and Events Management (MICE) | 2 | | | |
| TM171L | Introduction to Meeting Incentives Conferences and Events Management (MICE) Lab | 1 | | | |
| TM263 | Tourism Policy Planning and Development | 3 | | | |
| TM-RP2 | Research Project II | 3 | | | |
| | | Total | 21 | GRAND TOTAL | 175 |

**GENERAL
SUMMARY
OF COURSES**

**BACHELOR OF ARTS IN COMMUNICATION
GENERAL SUMMARY OF COURSES**

I. General Education Courses

| | | |
|--------------------------------------|---|-----------|
| A. Core Courses | | 24 |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| B. CHED Mandated Courses | | 26 |
| a. Rizal Course | | |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| b. Filipino Courses | | |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| FIL093 | Paqbasa at Paqsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| c. Physical Education Courses | | |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rhythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| d. National Service Training Program | | |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |
| C. Institutional Mandated Courses | | 19 |
| a. Religious Education Courses | | |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| b. Letran Quality Enrichment Courses | | |
| LQEC013 | Letran Quality Enrichment Course 1 | 3 |
| LQEC023 | Letran Quality Enrichment Course 2 | 3 |
| LQEC033 | Letran Quality Enrichment Course 3 | 3 |
| LQEC043 | Letran Quality Enrichment Course 4 | 3 |

II. Professional Education Courses

| | | |
|---------------------|--|-----------|
| A. Core Courses | | 21 |
| ABCOMM003 | Introduction to Communication Media | 3 |
| ABCOMM013 | Communication Theory | 3 |
| ABCOMM023 | Communication Media Laws and Ethics | 3 |
| ABCOMM133 | Communication Research | 3 |
| ABCOMM143 | Communication Culture and Society | 3 |
| ABCOMM223 | Communication Planning | 3 |
| ABCOMM263 | Communication Management | 3 |
| B. Required Courses | | 21 |
| ABCOMM093 | Development Communication | 3 |
| ABCOMM153 | Journalism Principles and Practices | 3 |
| ABCOMM163 | Broadcasting Principles and Practices | 3 |
| ABCOMM183 | Advertising Principles and Practices | 3 |
| ABCOMM193 | Public Relation Principles and Practices | 3 |
| ABCOMM203 | Knowledge Management | 3 |
| ABElec-1 | Risk, Disaster, and Humanitarian Communication | 3 |
| C. Elective Courses | | 30 |
| ABCOMM122 | Introduction to Theater Arts | 2 |
| ABCOMM121L | Introduction to Theater Arts Lab | 1 |
| ABCOMM283 | Organizational Culture and Communication | 3 |
| ABCOMM293 | Digital Publishing | 3 |
| ABCOMM303 | Philippine Arts | 3 |
| ABCOMM313 | Web Content Management | 3 |
| ABCOMM323 | Digital Imaging | 3 |
| ABElec-2 | Creative Writing | 3 |
| ABElec-5 | Basic Photography | 2 |
| ABElec-5L | Basic Photography Lab | 1 |
| ABElec-6 | Performance Media | 3 |
| ABElec-7 | Film Production | 2 |
| ABElec-7L | Film Production Lab | 1 |
| D. Thesis | | 6 |
| AB-THA | Thesis 1 (Proposal) | 3 |
| AB-THB | Thesis 2 (Final Stage) | 3 |
| E. Internship | | 6 |
| AB-PRC6 | Communication Internship (600hrs) | 6 |

TOTAL UNITS 153

**BACHELOR OF SCIENCE IN PSYCHOLOGY
GENERAL SUMMARY OF COURSES**

| | | | |
|--------------------------------------|---|---|------------|
| I. General Education Courses | | | |
| A. Core Courses | | | 24 |
| GEC003 | Understanding the Self | 3 | |
| GEC013 | Science, Technology, and Society | 3 | |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | |
| GEC033 | Mathematics in the Modern World | 3 | |
| GEC043 | The Contemporary World | 3 | |
| GEC053 | Art Appreciation | 3 | |
| GEC063 | Purposive Communication | 3 | |
| GEC073 | Ethics | 3 | |
| B. Filipino Courses | | | 9 |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 | |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | |
| FIL113 | Panitikang Filipino | 3 | |
| C. Natural Sciences | | | 21 |
| Chem023 | College Chemistry | 3 | |
| Chem022L | College Chemistry Lab | 2 | |
| NSci023 | Environmental Science | 3 | |
| NSci063 | Neuro-Anatomy | 3 | |
| NSci093 | College Zoology | 3 | |
| NSci092L | College Zoology Lab | 2 | |
| Phys023 | College Physics | 3 | |
| Phys022L | College Physics Lab | 2 | |
| D. CHED Mandated Courses | | | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | |
| E. Institutional Mandated Courses | | | 31 |
| a. Religious Education Courses | | | |
| RELED051 | The Catholic Christian Faith | 1 | |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 | |
| b. Letran Quality Enrichment Courses | | | |
| LQEC053 | Letran Quality Enrichment Course 5 | 3 | |
| LQEC063 | Letran Quality Enrichment Course 6 | 3 | |
| LQEC073 | Letran Quality Enrichment Course 7 | 3 | |
| LQEC083 | Letran Quality Enrichment Course 8 | 3 | |
| LQEC093 | Letran Quality Enrichment Course 9 | 3 | |
| LQEC103 | Letran Quality Enrichment Course 10 | 3 | |
| Psych-ST006 | Special Topics in Psychology | 6 | |
| F. Physical Education Courses | | | 8 |
| PE002-18 | Physical Fitness and Related Activities | 2 | |
| PE022-18 | Rhythmic Activities | 2 | |
| PE032-18 | Individual/Dual Sports | 2 | |
| PE042-18 | Team Sports | 2 | |
| G. National Service Training Program | | | 6 |
| NSTP1-18 | National Service Training Program 1 | 3 | |
| NSTP2-18 | National Service Training Program 2 | 3 | |
| II. Basic Courses | | | 8 |
| Psych003 | Introduction to Psychology | 3 | |
| Psych033 | Psychological Statistics | 3 | |
| Psych032L | Psychological Statistics Lab | 2 | |
| III. Required Courses | | | 45 |
| Psych023 | Developmental Psychology | 3 | |
| Psych043 | Theories of Personality | 3 | |
| Psych063 | Cognitive Psychology | 3 | |
| Psych083 | Experimental Psychology | 3 | |
| Psych082L | Experimental Psychology Lab | 2 | |
| Psych093 | Abnormal Psychology | 3 | |
| Psych103 | Social Psychology | 3 | |
| Psych113 | Industrial/Organizational Psychology | 3 | |
| Psych123 | Sikolohiyang Pilipino | 3 | |
| Psych133 | Physiological/Biological Psychology | 3 | |
| Psych173 | Field Methods in Psychology | 3 | |
| Psych172L | Field Methods in Psychology Lab | 2 | |
| Psych263 | Psychological Assessment | 3 | |
| Psych262L | Psychological Assessment Lab | 2 | |
| Psych-RESA | Research in Psychology I | 3 | |
| Psych-RESB | Research in Psychology II | 3 | |
| IV. Electives | | | 12 |
| Psych143 | Group Dynamics | 3 | |
| Psych223 | Introduction to Clinical Psychology | 3 | |
| Psych-PRC-C | Clinical Practicum (200hrs) | 2 | |
| Psych-PRC-E | Educational Practicum (200hrs) | 2 | |
| Psych-PRC-I | Industrial Practicum (200hrs) | 2 | |
| TOTAL UNITS | | | 167 |

**BACHELOR OF SECONDARY EDUCATION MAJOR IN ENGLISH
GENERAL SUMMARY OF COURSES**

| | | | |
|---|---|--------------------|------------|
| I. General Education Courses | | | |
| A. Core Courses | | | 24 |
| GEC003 | Understanding the Self | 3 | |
| GEC013 | Science, Technology, and Society | 3 | |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | |
| GEC033 | Mathematics in the Modern World | 3 | |
| GEC043 | The Contemporary World | 3 | |
| GEC053 | Art Appreciation | 3 | |
| GEC063 | Purposive Communication | 3 | |
| GEC073 | Ethics | 3 | |
| B. CHED Mandated Courses | | | 26 |
| a. Rizal Course | | | |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | |
| b. Filipino Courses | | | |
| FIL083 | Komunikasyon sa Akademikong Filipino | 3 | |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | |
| FIL113 | Panitikang Filipino | 3 | |
| c. Physical Education Courses | | | |
| PE002-18 | Physical Fitness and Related Activities | 2 | |
| PE022-18 | Rhythmic Activities | 2 | |
| PE032-18 | Individual/Dual Sports | 2 | |
| PE042-18 | Team Sports | 2 | |
| d. National Service Training Program | | | |
| NSTP1-18 | National Service Training Program 1 | 3 | |
| NSTP2-18 | National Service Training Program 2 | 3 | |
| C. Institutional Mandated Courses | | | 35 |
| a. Religious Education Courses | | | |
| RELED051 | The Catholic Christian Faith | 1 | |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 | |
| b. Letran Quality Enrichment Courses | | | |
| EDUC-ST006 | Special Topics | 6 | |
| LQEC113 | Letran Quality Enrichment Course 11 (Prof Educ Courses 1) | 3 | |
| LQEC123 | Letran Quality Enrichment Course 12 (Prof Educ Courses 2) | 3 | |
| LQEC133 | Letran Quality Enrichment Course 13 (Prof Educ Courses 3) | 3 | |
| LQEC173 | Letran Quality Enrichment Course 17 (Specialization Courses 1) | 3 | |
| LQEC183 | Letran Quality Enrichment Course 18 (Specialization Courses 2) | 3 | |
| LQEC193 | Letran Quality Enrichment Course 19 (Specialization Courses 3) | 3 | |
| LQEC204 | Letran Quality Enrichment Course 20 (Specialization Courses 4) | 4 | |
| II. Professional Education Courses | | | 48 |
| A. Foundation/Theories and Concepts | | | |
| EDUC233 | The Teaching Profession | 3 | |
| EDUC253 | The Child and Adolescent Learners and Learning Principles | 3 | |
| EDUC293 | Foundation of Special and Inclusive Education | 3 | |
| EDUC313 | The Teacher and the Community, School Culture and Organizational Leadership | 3 | |
| B. Pedagogical Content Knowledge | | | |
| EDUC063A | Assessment in Learning 1 | 3 | |
| EDUC063B | Assessment in Learning 2 | 3 | |
| EDUC263 | Building and Enhancing New Literacies Across the Curriculum | 3 | |
| EDUC273 | Technology for Teaching and Learning 1 | 3 | |
| EDUC283 | Facilitating Learner Centered Teaching | 3 | |
| EDUC303 | The Teacher and the School Curriculum | 3 | |
| EDUC-RESA | Educational Research I | 3 | |
| EDUC-RESB | Educational Research II | 3 | |
| C. Experiential Learning | | | |
| FS1 | Field Study 1 (Observation of Teaching Learning in Actual School Environment) | 3 | |
| FS2 | Field Study 2 (Participation and Teaching Assistantship) | 3 | |
| EDUC-PRC6 | Practice Teaching (Off-campus/600 hrs) | 6 | |
| III. Major Courses | | | 63 |
| ENED023B | Introduction to Linguistics | 3 | |
| ENED053B | Campus Journalism | 3 | |
| ENED223 | Language, Culture, and Society | 3 | |
| ENED233 | Structures of English | 3 | |
| ENED243 | Principles and Theories of Language Acquisition and Learning | 3 | |
| ENED253 | Language Programs and Policies in Multilingual Societies | 3 | |
| ENED263 | Language Learning Materials Development | 3 | |
| ENED273 | Teaching and Assessment of Literature Studies | 3 | |
| ENED283 | Teaching and Assessment of Macroskills | 3 | |
| ENED293 | Teaching and Assessment of Grammar | 3 | |
| ENED303 | Language Education Research | 3 | |
| ENED313 | Speech and Theater Arts | 3 | |
| ENED323 | Technical Writing | 3 | |
| ENED333 | Technology for Teaching and Learning 2 (Technology in Language Education) | 3 | |
| LIT063 | Mythology and Folklore | 3 | |
| LIT083 | Survey of Afro-Asian Literature | 3 | |
| LIT093 | Survey of English and American Literature | 3 | |
| LIT103 | Survey of Philippine Literature in English | 3 | |
| LIT113 | Children and Adolescent Literature | 3 | |
| LIT123 | Contemporary, Popular, and Emergent Literature | 3 | |
| LIT213 | Literary Criticism | 3 | |
| IV. Electives | | | 6 |
| ENED-ELEC1 | English for Specific Purposes | 3 | |
| ENED-ELEC2 | Stylistic and Discourse Analysis | 3 | |
| | | TOTAL UNITS | 202 |

**BACHELOR OF SECONDARY EDUCATION MAJOR IN MATHEMATICS
GENERAL SUMMARY OF COURSES**

| | | | |
|---|--|--|------------|
| I. General Education Courses | | | |
| A. Core Courses | | | 24 |
| GEC003 | Understanding the Self | | 3 |
| GEC013 | Science, Technology, and Society | | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | | 3 |
| GEC033 | Mathematics in the Modern World | | 3 |
| GEC043 | The Contemporary World | | 3 |
| GEC053 | Art Appreciation | | 3 |
| GEC063 | Purposive Communication | | 3 |
| GEC073 | Ethics | | 3 |
| B. CHED Mandated Courses | | | 26 |
| a. Rizal Course | | | |
| RZL023 | Buhay at Mga Akda ni Rizal | | 3 |
| b. Filipino Courses | | | |
| FIL083 | Komunikasyon sa Akademikong Filipino | | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | | 3 |
| FIL113 | Panitikang Filipino | | 3 |
| c. Physical Education Courses | | | |
| PE002-18 | Physical Fitness and Related Activities | | 2 |
| PE022-18 | Rhythmic Activities | | 2 |
| PE032-18 | Individual/Dual Sports | | 2 |
| PE042-18 | Team Sports | | 2 |
| d. National Service Training Program | | | |
| NSTP1-18 | National Service Training Program 1 | | 3 |
| NSTP2-18 | National Service Training Program 2 | | 3 |
| C. Institutional Mandated Courses | | | 35 |
| a. Religious Education Courses | | | |
| RELED051 | The Catholic Christian Faith | | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | | 3 |
| b. Letran Quality Enrichment Courses | | | |
| EDUC-ST006 | Special Topics | | 6 |
| LQEC113 | Letran Quality Enrichment Course 11 (Prof Educ Courses 1) | | 3 |
| LQEC123 | Letran Quality Enrichment Course 12 (Prof Educ Courses 2) | | 3 |
| LQEC133 | Letran Quality Enrichment Course 13 (Prof Educ Courses 3) | | 3 |
| LQEC213 | Letran Quality Enrichment Course 21 (Specialization Courses 1) | | 3 |
| LQEC223 | Letran Quality Enrichment Course 22 (Specialization Courses 2) | | 3 |
| LQEC233 | Letran Quality Enrichment Course 23 (Specialization Courses 3) | | 3 |
| LQEC244 | Letran Quality Enrichment Course 24 (Specialization Courses 4) | | 4 |
| II. Professional Education Courses | | | 48 |
| A. Foundation/Theories and Concepts | | | |
| EDUC233 | The Teaching Profession | | 3 |
| EDUC253 | The Child and Adolescent Learners and Learning Principles | | 3 |
| EDUC293 | Foundation of Special and Inclusive Education | | 3 |
| EDUC313 | The Teacher and the Community, School Culture and Organizational Leadership | | 3 |
| B. Pedagogical Content Knowledge | | | |
| EDUC063A | Assessment in Learning 1 | | 3 |
| EDUC063B | Assessment in Learning 2 | | 3 |
| EDUC263 | Building and Enhancing New Literacies Across the Curriculum | | 3 |
| EDUC273 | Technology for Teaching and Learning 1 | | 3 |
| EDUC283 | Facilitating Learner Centered Teaching | | 3 |
| EDUC303 | The Teacher and the School Curriculum | | 3 |
| EDUC-RESA | Educational Research I | | 3 |
| EDUC-RESB | Educational Research II | | 3 |
| C. Experiential Learning | | | |
| FS1 | Field Study 1 (Observation of Teaching Learning in Actual School Environment) | | 3 |
| FS2 | Field Study 2 (Participation and Teaching Assistantship) | | 3 |
| EDUC-PRC6 | Practice Teaching (Off-campus/600 hrs) | | 6 |
| III. Major Courses | | | 63 |
| MTED003 | History of Math | | 3 |
| MTED013B | Plane and Solid Geometry | | 3 |
| MTED023B | Trigonometry | | 3 |
| MTED033B | Mathematics of Investment | | 3 |
| MTED043D | Modern Geometry | | 3 |
| MTED073B | Linear Algebra | | 3 |
| MTED133B | Number Theory | | 3 |
| MTED143B | Abstract Algebra | | 3 |
| MTED173 | College and Advanced Algebra | | 3 |
| MTED183 | Logic and Set Theory | | 3 |
| MTED193 | Elementary Statistics and Probability | | 3 |
| MTED204 | Calculus 1 with Analytic Geometry | | 4 |
| MTED214 | Calculus 2 | | 4 |
| MTED223 | Advanced Statistics | | 3 |
| MTED233 | Problem Solving, Mathematical Investigation & Modelling | | 3 |
| MTED243 | Calculus 3 | | 3 |
| MTED253 | Principles & Strategies in Teaching Mathematics | | 3 |
| MTED263 | Research in Mathematics | | 3 |
| MTED274 | Technology for Teaching and Learning 2 (Instrumentation and Technology in Mathematics) | | 4 |
| MTED293 | Assessment and Evaluation in Mathematics | | 3 |
| TOTAL UNITS | | | 196 |

**BACHELOR OF ELEMENTARY EDUCATION
GENERAL SUMMARY OF COURSES**

| | | |
|---|---|------------|
| I. General Education Courses | | 24 |
| A. Core Courses | | |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| B. CHED Mandated Courses | | |
| a. Rizal Course | | 26 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| b. Filipino Courses | | |
| FIL083 | Komunikasyon sa Akademikong Filipino | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| c. Physical Education Courses | | |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rhythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| d. National Service Training Program | | |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |
| C. Institutional Mandated Courses | | 31 |
| a. Religious Education Courses | | |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| b. Letran Quality Enrichment Courses | | |
| EDUC-ST006 | Special Topics | 6 |
| LQEC113 | Letran Quality Enrichment Course 11 (Prof Educ Courses 1) | 3 |
| LQEC123 | Letran Quality Enrichment Course 12 (Prof Educ Courses 2) | 3 |
| LQEC133 | Letran Quality Enrichment Course 13 (Prof Educ Courses 3) | 3 |
| LQEC143 | Letran Quality Enrichment Course 14 (Specialization Courses 1) | 3 |
| LQEC153 | Letran Quality Enrichment Course 15 (Specialization Courses 2) | 3 |
| LQEC163 | Letran Quality Enrichment Course 16 (Specialization Courses 3) | 3 |
| II. Professional Education Courses | | 48 |
| A. Foundation/Theories and Concepts | | |
| EDUC233 | The Teaching Profession | 3 |
| EDUC253 | The Child and Adolescent Learners and Learning Principles | 3 |
| EDUC293 | Foundation of Special and Inclusive Education | 3 |
| EDUC313 | The Teacher and the Community, School Culture and Organizational Leadership | 3 |
| B. Pedagogical Content Knowledge | | |
| EDUC063A | Assessment in Learning 1 | 3 |
| EDUC063B | Assessment in Learning 2 | 3 |
| EDUC263 | Building and Enhancing New Literacies Across the Curriculum | 3 |
| EDUC273 | Technology for Teaching and Learning 1 | 3 |
| EDUC283 | Facilitating Learner Centered Teaching | 3 |
| EDUC303 | The Teacher and the School Curriculum | 3 |
| EDUC-RESA | Educational Research I | 3 |
| EDUC-RESB | Educational Research II | 3 |
| C. Experiential Learning | | |
| FS1 | Field Study 1 (Observation of Teaching Learning in Actual School Environment) | 3 |
| FS2 | Field Study 2 (Participation and Teaching Assistantship) | 3 |
| EDUC-PRC6 | Practice Teaching (Off-campus/600 hrs) | 6 |
| III. Major Courses | | 57 |
| ELEM013 | Teaching Biology and Chemistry in the Elementary Grades | 3 |
| ELEM023 | Teaching Philippine History and Government in the Elementary Grades | 3 |
| ELEM033 | Teaching Math in the Primary Grades | 3 |
| ELEM043 | Good Manners and Right Conduct (Edukasyon sa Pagpapakatao) | 3 |
| ELEM053 | Teaching Language Arts in the Elementary Grades | 3 |
| ELEM063 | Pagtuturo ng Estructura at Gamit ng Wikang Filipino sa Elementarya | 3 |
| ELEM073 | Teaching Music in the Elementary Grades | 3 |
| ELEM083 | Edukasyong Pantahanan at Pangkabuhayan | 3 |
| ELEM093 | Teaching Arts in the Elementary Grades | 3 |
| ELEM103 | Pagtuturo ng Panitikan ng Pilipinas sa Elementarya | 3 |
| ELEM113 | Teaching Physics, Earth, and Space Science in the Elementary Grades | 3 |
| ELEM123 | Teaching Culture and Geography in the Elementary Grades | 3 |
| ELEM133 | Technology for Teaching and Learning in the Elementary Grades | 3 |
| ELEM143 | Teaching English in the Elementary Grades Through Literature | 3 |
| ELEM153 | Teaching Math in the Intermediate Grades | 3 |
| ELEM163 | Content and Pedagogy for the Mother-Tongue | 3 |
| ELEM173 | Teaching PE and Health in the Elementary Grades | 3 |
| ELEM183 | Edukasyong Pantahanan at Pangkabuhayan with Entrepreneurship | 3 |
| ELEM193 | Research in Education | 3 |
| IV. Elective | | 3 |
| ELEM-ELEC1 | Teaching Multi-Grade Classes | 3 |
| TOTAL UNITS | | 189 |

**BACHELOR OF SCIENCE IN ACCOUNTANCY
GENERAL SUMMARY OF COURSES**

| | | |
|---|--|------------|
| I. General Education Courses | | 27 |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| II. National Service Training Program | | 6 |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |
| III. Physical Education Courses | | 8 |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rhythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| IV. Common Business and Management Courses | | 6 |
| Mnqt253 | Strategic Management | 3 |
| Mnqt263 | Operations Management (TQM) | 3 |
| V. Core Accounting Education Courses | | 111 |
| ActEd013 | Conceptual Framework and Accounting Standards | 3 |
| ActEd026A | Intermediate Accounting 1 | 6 |
| ActEd026B | Intermediate Accounting 2 | 6 |
| ActEd023C | Intermediate Accounting 3 | 3 |
| ActEd043 | Governance, Business Ethics, Risk Management, and Internal Control | 3 |
| ActEd053 | Economic Development | 3 |
| ActEd062 | Statistical Analysis with Software Application | 2 |
| ActEd061L | Statistical Analysis with Software Application Lab | 1 |
| ActEd072 | Accounting Information System | 3 |
| ActEd071L | Accounting Information System Lab | 1 |
| ActEd093 | Managerial Economics | 3 |
| ActEd123 | Financial Management | 3 |
| ActEd133 | Cost Accounting and Control | 3 |
| ActEd153 | Regulatory Framework and Legal Issues in Business | 3 |
| ActEd163 | Financial Markets | 3 |
| ActEd172 | IT Application Tools in Business | 2 |
| ActEd171L | IT Application Tools in Business Lab | 1 |
| ActEd183 | Strategic Cost Management | 3 |
| ActEd213 | Strategic Business Analysis | 3 |
| ActEd253 | Accounting Research Methods | 3 |
| ActEd263 | International Business and Trade | 3 |
| ACCT-PRC6 | Accounting Internship (600hrs) | 6 |
| ACCT-RESA | Accountancy Research 1 (Proposal) | 3 |
| ACCT-RESB | Accountancy Research 2 (Final) | 3 |
| ACCT-ST013 | Special Topics in Financial Accounting and Reporting | 3 |
| ACCT-ST023 | Special Topics in Advanced Accounting | 3 |
| ACCT-ST033 | Special Topics in Management Accounting and Control | 3 |
| ACCT-ST043 | Special Topics in Auditing | 3 |
| ACCT-ST053 | Special Topics in Taxation | 3 |
| ACCT-ST063 | Special Topics in Regulatory Framework for Business Transactions | 3 |
| Blw003 | Law on Obligations and Contracts | 3 |
| Blw053 | Business Laws and Regulations | 3 |
| BusEd053 | Management Science | 3 |
| BusEd066 | Financial Accounting and Reporting | 6 |
| Tax013B | Income Taxation | 3 |
| Tax073 | Business Taxation | 3 |
| VI. Cognates/Major/Professional Courses | | 36 |
| ACCT112 | Auditing in a CIS Environment | 2 |
| ACCT111L | Auditing in a CIS Environment Lab | 1 |
| ACCT123 | Auditing and Assurance Principles | 3 |
| ACCT173 | Accounting for Special Transactions | 3 |
| ACCT183 | Accounting for Business Combinations | 3 |
| ACCT223 | Accounting for Government and Non-Profit Organizations | 3 |
| ACCT233A | Auditing and Assurance: Concepts and Applications 1 | 3 |
| ACCT233B | Auditing and Assurance: Concepts and Applications 2 | 3 |
| ACCT243 | Auditing and Assurance: Specialized Industries | 3 |
| ACElec-1 | Updates in Financial Reporting Standards | 3 |
| ACElec-2 | Human Behavior in Organizations | 3 |
| ACElec-3 | Operations Auditing | 3 |
| ACElec-4 | Valuation Concepts and Methods | 3 |
| VII. Filipino Courses | | 9 |
| Fil083 | Komunikasyon Sa Akademikong Filipino | 3 |
| Fil093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| Fil113 | Panitikang Filipino | 3 |
| VIII. Religious Education Courses | | 7 |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| IX. Letran Quality Enrichment Courses | | 18 |
| LQEC283 | Letran Quality Enrichment Course 28 | 3 |
| | TOTAL UNITS | 213 |

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
Major in MARKETING MANAGEMENT
GENERAL SUMMARY OF COURSES

| | | |
|---|---|------------------|
| I. General Education Courses | | <u>27</u> |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| II. National Service Training Program | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |
| III. Physical Education Courses | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rhythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| IV. Common Business and Management Courses | | <u>9</u> |
| MNGT123 | Financial Management | 3 |
| MNGT253 | Strategic Management | 3 |
| MNGT263 | Operations Management (TQM) | 3 |
| V. Business Administration Core Courses | | <u>24</u> |
| BLW003 | Law on Obligations and Contracts | 3 |
| BusEd083 | Good Governance and Social Responsibility | 3 |
| ECO023B | Basic Microeconomics | 3 |
| MKMT-BR1 | Business Research 1 | 3 |
| MKMT-BR2 | Business Research 2 | 3 |
| MNGT053 | Human Resource Management | 3 |
| MNGT273 | International Business and Trade | 3 |
| TAX013B | Income Taxation | 3 |
| VI. Professional Major Courses | | <u>36</u> |
| MKMT013 | Consumer Behavior | 3 |
| MKMT023 | Advertising | 3 |
| MKMT033 | Marketing Research | 3 |
| MKMT043 | Professional Salesmanship | 3 |
| MKMT053 | Marketing Management | 3 |
| MKMT063 | Strategic Marketing Management | 3 |
| MKMT073 | Retail Management | 3 |
| MKMT083 | Product Management | 3 |
| MKMT093 | Distribution Management | 3 |
| MKMT103 | Sales Management | 3 |
| MKMT113 | Pricing Strategy | 3 |
| MKMT123 | Digital Marketing | 3 |
| VII. Electives | | <u>12</u> |
| MKMT-ELEC1 | Entrepreneurial Management | 3 |
| MKMT-ELEC2 | E-Commerce and Internet Marketing | 3 |
| MKMT-ELEC3 | International Marketing | 3 |
| MKMT-ELEC4 | Special Topics in Marketing | 3 |
| VIII. Internship | | <u>6</u> |
| MKMT-PRC6 | Internship (600hrs) | 6 |
| IX. Religious Education Courses | | <u>7</u> |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| X. Filipino Courses | | <u>9</u> |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| XI. Letran Quality Enrichment Courses | | <u>12</u> |
| LQEC383 | Letran Quality Enrichment Course 38 | 3 |
| LQEC393 | Letran Quality Enrichment Course 39 | 3 |
| LQEC403 | Letran Quality Enrichment Course 40 | 3 |
| LQEC413 | Letran Quality Enrichment Course 41 | 3 |
| TOTAL UNITS | | 156 |

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
Major in HUMAN RESOURCE MANAGEMENT
GENERAL SUMMARY OF COURSES

| | | |
|---|---|------------------|
| I. General Education Courses | | <u>27</u> |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| II. National Service Training Program | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |
| III. Physical Education Courses | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rhythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| IV. Core Business and Management Courses | | <u>6</u> |
| MNGT253 | Strategic Management | 3 |
| MNGT263 | Operations Management (TQM) | 3 |
| V. Business Administration Core Courses | | <u>27</u> |
| BLW003 | Law on Obligations and Contracts | 3 |
| BusEd083 | Good Governance and Social Responsibility | 3 |
| BusRes013 | Business Research | 3 |
| ECO023B | Basic Microeconomics | 3 |
| HRM-TH1 | Thesis 1 (Research Proposal) | 3 |
| HRM-TH2 | Thesis 2 (Presentation and Submission of Research Paper) | 3 |
| MNGT053 | Human Resource Management | 3 |
| MNGT273 | International Business and Trade | 3 |
| TAX013B | Income Taxation | 3 |
| VI. Professional Major Courses | | <u>33</u> |
| HRM023 | Administrative and Office Management | 3 |
| HRM033 | Labor Law and Legislation | 3 |
| HRM043 | Recruitment and Selection | 3 |
| HRM053 | Employee Training and Development | 3 |
| HRM063 | Performance Management System | 3 |
| HRM073 | Labor Relations and Negotiations | 3 |
| HRM083 | Organization Development | 3 |
| HRM093B | Compensation Administration | 3 |
| HRM173 | Employee Relations and Services | 3 |
| HRM212 | Human Resource Information System (HRIS) | 2 |
| HRM211L | Human Resource Information System (HRIS) Lab | 1 |
| HRM223 | Special Topics in Human Resource Management | 3 |
| VII. Electives | | <u>12</u> |
| HRMELEC-1 | Entrepreneurial Management | 3 |
| HRMELEC-2 | Managerial Accounting | 3 |
| HRMELEC-3 | Project Management | 3 |
| HRMELEC-4 | Personal Finance | 3 |
| VIII. Internship | | <u>6</u> |
| HRM-PRC6 | Internship (600hrs) | 6 |
| IX. Filipino Courses | | <u>9</u> |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| FIL093 | Paqbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| X. Religious Education Courses | | <u>7</u> |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| XI. Letran Quality Enrichment Courses | | <u>12</u> |
| LQEC343 | Letran Quality Enrichment Course 34 | 3 |
| LQEC353 | Letran Quality Enrichment Course 35 | 3 |
| LQEC363 | Letran Quality Enrichment Course 36 | 3 |
| LQEC373 | Letran Quality Enrichment Course 37 | 3 |
| TOTAL UNITS | | 153 |

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION**Major in FINANCIAL MANAGEMENT****GENERAL SUMMARY OF COURSES**

| | | |
|---|---|------------------|
| I. General Education Courses | | <u>27</u> |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| II. National Service Training Program | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |
| III. Physical Education Courses | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rhythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| IV. Common Business and Management Courses | | <u>6</u> |
| MNGT253 | Strategic Management | 3 |
| MNGT263 | Operations Management (TQM) | 3 |
| V. Business Administration Core Courses | | <u>27</u> |
| BLW003 | Law on Obligations and Contracts | 3 |
| BusEd083 | Good Governance and Social Responsibility | 3 |
| BusRes013 | Business Research | 3 |
| ECO023B | Basic Microeconomics | 3 |
| FINMAN-TH1 | Thesis/Feasibility Study 1 | 3 |
| FINMAN-TH2 | Thesis/Feasibility Study 2 | 3 |
| MNGT053 | Human Resource Management | 3 |
| MNGT273 | International Business and Trade | 3 |
| TAX013B | Income Taxation | 3 |
| VI. Professional Major Courses | | <u>24</u> |
| FINMAN113 | Banking and Financial Institutions | 3 |
| FINMAN123 | Financial Management | 3 |
| FINMAN133 | Financial Analysis and Reporting | 3 |
| FINMAN143 | Credit and Collection | 3 |
| FINMAN153 | Monetary Policy and Central Banking | 3 |
| FINMAN163 | Capital Market | 3 |
| FINMAN173 | Investment and Portfolio Management | 3 |
| FINMAN183 | Special Topics in Financial Management | 3 |
| VII. Electives | | <u>12</u> |
| FINMAN-ELEC1 | Public Finance | 3 |
| FINMAN-ELEC2 | Entrepreneurial Management | 3 |
| FINMAN-ELEC3 | Risk Management | 3 |
| FINMAN-ELEC4 | Financial Controllership | 3 |
| VIII. Internship | | <u>6</u> |
| FINMAN-PRC6 | Internship (600 hrs) | 6 |
| IX. Religious Education Courses | | <u>7</u> |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| X. Filipino Courses | | <u>9</u> |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| XI. Letran Quality Enrichment Courses | | <u>12</u> |
| LQEC423 | Letran Quality Enrichment Course 42 | 3 |
| LQEC433 | Letran Quality Enrichment Course 43 | 3 |
| LQEC443 | Letran Quality Enrichment Course 44 | 3 |
| LQEC453 | Letran Quality Enrichment Course 45 | 3 |
| | TOTAL UNITS | 144 |

**BACHELOR OF SCIENCE IN ENTREPRENEURSHIP
GENERAL SUMMARY OF COURSES**

| | | |
|---|--|------------------|
| I. General Education Courses | | <u>27</u> |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| II. National Service Training Program | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |
| III. Physical Education Courses | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rhythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| IV. Common Business and Management Courses | | <u>6</u> |
| MNGT253 | Strategic Management | 3 |
| MNGT263 | Operations Management (TQM) | 3 |
| V. Entrepreneurship Core Courses | | <u>49</u> |
| ENTRP013 | Entrepreneurial Behavior | 3 |
| ENTRP023 | Microeconomics | 3 |
| ENTRP033 | Programs and Policies on Enterprise Development | 3 |
| ENTRP043 | Opportunity Seeking | 3 |
| ENTRP053 | Market Research and Consumer Behavior | 3 |
| ENTRP063 | Innovation Management | 3 |
| ENTRP073 | Pricing and Costing | 3 |
| ENTRP083 | Human Resource Management | 3 |
| ENTRP093 | Financial Analysis for Decision Making | 3 |
| ENTRP103 | Business Plan Preparation | 3 |
| ENTRP113 | International Business and Trade | 3 |
| ENTRP123 | Business Law and Taxation (Laws affecting Micro, Small & Medium Enterprises) | 3 |
| ENTRP132 | Business Plan Implementation 1 | 2 |
| ENTRP133L | Business Plan Implementation 1 Lab | 3 |
| ENTRP143 | Social Entrepreneurship | 3 |
| ENTRP152 | Business Plan Implementation 2 | 2 |
| ENTRP153L | Business Plan Implementation 2 Lab | 3 |
| VI. Specialized Tracks | | <u>12</u> |
| ENTRP-BP1 | Business Proposal 1 | 3 |
| ENTRP-BP2 | Business Proposal 2 | 3 |
| ENTRP-BP3 | Business Proposal 3 | 3 |
| ENTRP-BP4 | Business Proposal 4 | 3 |
| VII. Electives | | <u>12</u> |
| ENTRP-ELEC1 | Entrepreneurial Leadership in an Organization | 3 |
| ENTRP-ELEC2 | Supply Chain Management | 3 |
| ENTRP-ELEC3 | Wholesale and Retail Sales Management | 3 |
| ENTRP-ELEC4 | E-Commerce | 3 |
| VIII. Religious Education Courses | | <u>7</u> |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| IX. Filipino Courses | | <u>9</u> |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| X. Letran Quality Enrichment Courses | | <u>12</u> |
| LQEC463 | Letran Quality Enrichment Course 46 | 3 |
| LQEC473 | Letran Quality Enrichment Course 47 | 3 |
| LQEC483 | Letran Quality Enrichment Course 48 | 3 |
| LQEC493 | Letran Quality Enrichment Course 49 | 3 |

TOTAL UNITS 148

**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING
GENERAL SUMMARY OF COURSES**

I. TECHNICAL COURSES

| | | |
|--------------------------------------|---|-----------|
| A. Mathematics | | 12 |
| MATH153A | Calculus 1 | 3 |
| MATH153B | Calculus 2 | 3 |
| MATH223 | Differential Equations | 3 |
| MATH323 | Engineering Data Analysis | 3 |
| B. Natural/Physical Sciences | | 8 |
| CHM083 | Chemistry for Engineers | 3 |
| CHM081L | Chemistry for Engineers Lab | 1 |
| PHY083 | Physics for Engineers | 3 |
| PHY081L | Physics for Engineers Lab | 1 |
| C. Basic Engineering Sciences | | 20 |
| CoENG001L | Computer Fundamentals and Programming Lab | 1 |
| CoENG041L | Computer Applications for ME | 1 |
| DRW021L | Engineering Drawing | 1 |
| DRW051L | Computer Aided Drafting | 1 |
| ENGG002 | Dynamics of Rigid Bodies | 2 |
| ENGG003 | Statics of Rigid Bodies | 3 |
| ENGG063 | Mechanics of Deformable Bodies | 3 |
| ENGG103 | Engineering Economics | 3 |
| ENGG112 | Engineering Management | 2 |
| ENGG193 | Technopreneurship | 3 |
| D. Allied Courses | | 9 |
| EE012B | Basic Electrical Engineering | 2 |
| EE011B-L | Basic Electrical Engineering Lab | 1 |
| EE022C | DC and AC Machinery | 2 |
| EE021C-L | DC and AC Machinery Lab | 1 |
| EE062B | Basic Electronics | 2 |
| EE061B-L | Basic Electronics Lab | 1 |
| E. Fundamental Courses | | 49 |
| ME001-18 | Orientation to ME | 1 |
| ME001L | Workshop Theory & Practice Lab | 1 |
| ME002L | Machine Shop Theory and Practice Lab | 2 |
| ME032C | Machine Elements | 2 |
| ME031C-L | Machine Elements Lab | 1 |
| ME043C | Thermodynamics I | 3 |
| ME043D | Thermodynamics II | 3 |
| ME052B | Material Science & Engineering for ME | 2 |
| ME051B-L | Material Science & Engineering for ME Lab | 1 |
| ME071B-L1 | Mechanical Engineering Lab I | 1 |
| ME072B-L2 | Mechanical Engineering Lab II | 2 |
| ME082B | Combustion Engineering | 2 |
| ME092B | Heat Transfer | 2 |
| ME101A | Methods of Research for ME | 1 |
| ME113B | Refrigeration Systems | 3 |
| ME123A | Fluid Machineries | 3 |
| ME132B | Vibration Engineering | 2 |
| ME143C | Airconditioning and Ventilation Systems | 3 |
| ME221 | Manufacturing & Industrial Processes with Plant Visit | 1 |
| ME221L | Manufacturing & Industrial Processes with Plant Visit Lab | 1 |
| ME262 | Control Engineering | 2 |
| ME261L | Control Engineering Lab | 1 |
| ENGG093 | Fluid Mechanics | 3 |
| ENGG183 | Basic Occupational Safety and Health | 3 |
| MATHME253 | Advanced Engineering Math for ME | 3 |
| F. Professional Courses | | 20 |
| ME063C | Machine Design I | 3 |
| ME062D | Machine Design II | 2 |
| ME061D-L | Machine Design II Lab | 1 |
| ME072B-L3 | Mechanical Engineering Lab III | 2 |
| ME153A | Industrial Plant Engineering and Design | 3 |
| ME151A-L | Industrial Plant Engineering and Design Lab | 1 |
| ME182A | ME Laws, Ethics, Codes, and Standards | 2 |
| ME193 | Power Plant Design with Renewable Energy | 3 |
| ME191L | Power Plant Design with Renewable Energy Lab | 1 |
| ME-PS1 | ME Project Study I | 1 |
| ME-PS2 | ME Project Study II | 1 |

| | | | |
|--------------------------------------|---|---|------------|
| G. Technical Electives | | | 6 |
| ME-ELEC1 | Solar Energy and Wind Energy Utilization | 3 | |
| ME-ELEC2 | Energy Management System in Building | 3 | |
| H. Letran Thrust Courses | | | 12 |
| LQEC543 | Letran Quality Enrichment Course 54 | 3 | |
| LQEC553 | Letran Quality Enrichment Course 55 | 3 | |
| ME-ST006 | Special Topics for ME | 6 | |
| II. NON-TECHNICAL COURSES | | | |
| A. General Education Courses | | | 24 |
| GEC003 | Understanding the Self | 3 | |
| GEC013 | Science, Technology and Society | 3 | |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | |
| GEC033 | Mathematics in the Modern World | 3 | |
| GEC043 | The Contemporary World | 3 | |
| GEC053 | Art Appreciation | 3 | |
| GEC063 | Purposive Communication | 3 | |
| GEC073 | Ethics | 3 | |
| B. Mandated Courses | | | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | |
| C. Filipino and Literature Courses | | | 9 |
| Fil083 | Komunikasyon sa Akademikong Filipino | 3 | |
| Fil093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | |
| FIL113 | Panitikang Filipino | 3 | |
| D. Physical Education Courses | | | 8 |
| PE002-18 | Physical Fitness and Related Activities | 2 | |
| PE022-18 | Rhythmic Activities | 2 | |
| PE032-18 | Individual/Dual Sports | 2 | |
| PE042-18 | Team Sports | 2 | |
| E. National Service Training Program | | | 6 |
| NSTP1-18 | National Service Training Program 1 | 3 | |
| NSTP2-18 | National Service Training Program 2 | 3 | |
| F. Institutional Courses | | | 7 |
| RELED051 | The Catholic Christian Faith | 1 | |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | |
| RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 | |
| TOTAL UNITS | | | 193 |

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

GENERAL SUMMARY OF COURSES

| | | | |
|-------------------------------|--|---|-----------|
| I. TECHNICAL COURSES | | | |
| A. Mathematics | | | 12 |
| MATH153A | Calculus 1 | 3 | |
| MATH153B | Calculus 2 | 3 | |
| MATH223 | Differential Equations | 3 | |
| MATH323 | Engineering Data Analysis | 3 | |
| B. Natural/Physical Sciences | | | 8 |
| CHM083 | Chemistry for Engineers | 3 | |
| CHM081L | Chemistry for Engineers Lab | 1 | |
| PHY083 | Physics for Engineers | 3 | |
| PHY081L | Physics for Engineers Lab | 1 | |
| C. Basic Engineering Sciences | | | 7 |
| Drw051L | Computer Aided Drafting | 1 | |
| ENGG103 | Engineering Economics | 3 | |
| ENGG193 | Technopreneurship | 3 | |
| D. Allied Courses | | | 8 |
| CpE033 | Fundamentals of Electrical Circuits | 3 | |
| CpE031L | Fundamentals of Electrical Circuits Lab | 1 | |
| CpE053 | Fundamentals of Electronic Circuits | 3 | |
| CpE051L | Fundamentals of Electronic Circuits Lab | 1 | |
| E. Professional Courses | | | 76 |
| CpE001 | Computer Engineering as a Discipline | 1 | |
| CpE012L | Programming Logic and Design Lab | 2 | |
| CpE042L | Object Oriented Programming Lab | 2 | |
| CpE072L | Data Structures and Algorithms Lab | 2 | |
| CpE083 | Feedback and Control Systems | 3 | |
| CpE123C | Software Design | 3 | |
| CpE121C-L | Software Design Lab | 1 | |
| CpE153 | Logic Circuits and Design | 3 | |
| CpE151L | Logic Circuits and Design Lab | 1 | |
| CpE161B-L | Computer Engineering Drafting and Design Lab | 1 | |
| CpE183A | Computer Architecture and Organization | 3 | |
| CpE181A-L | Computer Architecture and Organization Lab | 1 | |
| CpE193 | Microprocessors | 3 | |
| CpE191L | Microprocessors Lab | 1 | |
| CpE203B | Operating Systems | 3 | |
| CpE213B | Data and Digital Communications | 3 | |
| CpE253B | Digital Signal Processing | 3 | |
| CpE251B-L | Digital Signal Processing Lab | 1 | |
| CpE263B | Computer Networks and Security | 3 | |
| CpE261B-L | Computer Networks and Security Lab | 1 | |
| CpE271B-L | Seminars and Fieldtrips Lab | 1 | |
| CpE321L | Introduction to HDL Lab | 1 | |
| CpE333 | Embedded Systems | 3 | |
| CpE331L | Embedded Systems Lab | 1 | |
| CpE342 | CpE Laws and Professional Practice | 2 | |
| CpE353 | Emerging Technologies in CpE | 3 | |
| CpE383 | Methods of Research | 3 | |
| CpE-PD1-L | CpE Practice and Design 1 Lab | 1 | |
| CpE-PD2-L | CpE Practice and Design 2 Lab | 2 | |
| CpE-PRC6 | Practicum (600 hrs) | 6 | |
| ENGG183 | Basic Occupational Safety and Health | 3 | |
| ENGG223 | Fundamentals of Mixed Signals and Sensors | 3 | |
| MATH283 | Discrete Mathematics | 3 | |
| MATH303 | Numerical Methods | 3 | |
| F. Technical Electives | | | 9 |
| CpElec-1 | Cognate / Elective Course 1 | 3 | |
| CpElec-2 | Cognate / Elective Course 2 | 3 | |
| CpElec-3 | Cognate / Elective Course 3 | 3 | |
| G. Letran Thrust Courses | | | 9 |
| LQEC663 | Letran Quality Enrichment Course 66 | 3 | |
| LQEC673 | Letran Quality Enrichment Course 67 | 3 | |
| LQEC683 | Letran Quality Enrichment Course 68 | 3 | |

| II. NON-TECHNICAL COURSES | | | |
|--------------------------------------|---|---|------------|
| A. General Education Courses | | | 24 |
| GEC003 | Understanding the Self | 3 | |
| GEC013 | Science, Technology and Society | 3 | |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | |
| GEC033 | Mathematics in the Modern World | 3 | |
| GEC043 | The Contemporary World | 3 | |
| GEC053 | Art Appreciation | 3 | |
| GEC063 | Purposive Communication | 3 | |
| GEC073 | Ethics | 3 | |
| B. Mandated Courses | | | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | |
| C. Filipino and Literature Courses | | | 9 |
| Fil083 | Komunikasyon sa Akademikong Filipino | 3 | |
| Fil093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | |
| FIL113 | Panitikang Filipino | 3 | |
| D. Physical Education Courses | | | 8 |
| PE002-18 | Physical Fitness and Related Activities | 2 | |
| PE022-18 | Rhythmic Activities | 2 | |
| PE032-18 | Individual/Dual Sports | 2 | |
| PE042-18 | Team Sports | 2 | |
| E. National Service Training Program | | | 6 |
| NSTP1-18 | National Service Training Program 1 | 3 | |
| NSTP2-18 | National Service Training Program 2 | 3 | |
| F. Institutional Courses | | | 7 |
| RELED051 | The Catholic Christian Faith | 1 | |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | |
| RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 | |
| TOTAL UNITS | | | 186 |

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
GENERAL SUMMARY OF COURSES**

I. TECHNICAL COURSES

| | | |
|--------------------------------------|--|------------------|
| A. Mathematics | | <u>12</u> |
| MATH153A | Calculus 1 | 3 |
| MATH153B | Calculus 2 | 3 |
| MATH223 | Differential Equations | 3 |
| MATH323 | Engineering Data Analysis | 3 |
| B. Natural/Physical Sciences | | <u>8</u> |
| CHM083 | Chemistry for Engineers | 3 |
| CHM081L | Chemistry for Engineers Lab | 1 |
| PHY083 | Physics for Engineers | 3 |
| PHY081L | Physics for Engineers Lab | 1 |
| C. Basic Engineering Sciences | | <u>10</u> |
| Drw051L | Computer Aided Drafting | 1 |
| ENGG013 | Engineering Mechanics | 3 |
| ENGG103 | Engineering Economics | 3 |
| ENGG193 | Technopreneurship | 3 |
| D. Allied Courses | | <u>32</u> |
| CoENG001L | Computer Fundamentals and Programming Lab | 1 |
| EE042 | Electromagnetics | 2 |
| EE053 | Electronic Circuits: Devices and Analysis | 3 |
| EE051L | Electronic Circuits: Devices and Analysis Lab | 1 |
| EE103B | Fundamentals of Electronic Communications | 3 |
| EE142 | Logic Circuits and Switching Theory | 2 |
| EE173A | Industrial Electronics | 3 |
| EE171A-L | Industrial Electronics Lab | 1 |
| EE232 | Microprocessor Systems | 2 |
| ENGG042 | Materials Science and Engineering | 2 |
| ENGG062 | Fundamentals of Deformable Bodies | 2 |
| ENGG072 | Basic Thermodynamics | 2 |
| ENGG083 | Environmental Science and Engineering | 3 |
| ENGG092 | Fluid Mechanics | 2 |
| ENGG183 | Basic Occupational Safety and Health | 3 |
| E. Professional Courses | | <u>58</u> |
| EE033A | Electrical Circuits I | 3 |
| EE031A-L | Electrical Circuits I Lab | 1 |
| EE033B | Electrical Circuits II | 3 |
| EE031B-L | Electrical Circuits II Lab | 1 |
| EE082 | Feedback Control Systems | 2 |
| EE093B | Power System Analysis | 3 |
| EE091B-L | Power System Analysis Lab | 1 |
| EE112B | Instrumentation and Control | 2 |
| EE111B-L | Instrumentation and Control Lab | 1 |
| EE122A | Electrical Machines 1 | 2 |
| EE123B | Electrical Machines 2 | 3 |
| EE121B-L | Electrical Machines 2 Lab | 1 |
| EE163A | Electrical Systems and Illumination Engineering Design | 3 |
| EE162A-L | Electrical Systems and Illumination Engineering Design Lab | 2 |
| EE192A | EE Laws, Codes, and Professional Ethics | 2 |
| EE201A-L | Seminars/Colloquia Lab | 1 |
| EE262A | Electrical Apparatus and Devices | 2 |
| EE261A-L | Electrical Apparatus and Devices Lab | 1 |
| EE311L | Fundamentals of Power Plant Engineering Design Lab | 1 |
| EE321L | Electrical Standards and Practices Lab | 1 |
| EE323 | Engineering Mathematics for EE | 3 |
| EE332 | Distribution Systems and Substation Design | 2 |
| EE331L | Distribution Systems and Substation Design Lab | 1 |
| EE342 | Management of Engineering Projects | 2 |
| EE381L | Research Method Lab | 1 |
| EE-Elec1 | EE Elective 1 | 3 |
| EE-Elec2 | EE Elective 2 | 3 |
| EE-PRC3 | Practicum (300 hrs) | 3 |
| EE-RP-L | Research Project Lab | 1 |
| MATH302 | Numerical Methods and Analysis | 2 |
| MATH301L | Numerical Methods and Analysis Lab | 1 |
| F. Letran Thrust Courses | | <u>12</u> |
| EE-ST006 | Special Topics for EE | 6 |
| LQEC603 | Letran Quality Enrichment Course 60 | 3 |
| LQEC613 | Letran Quality Enrichment Course 61 | 3 |

II. NON-TECHNICAL COURSES

| | | |
|--------------------------------------|---|-------------------|
| A. General Education Courses | | <u>24</u> |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology and Society | 3 |
| GEC023 | Mga Babasahín Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| B. Mandated Courses | | <u>3</u> |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| C. Filipino and Literature Courses | | <u>9</u> |
| Fil083 | Komunikasyon sa Akademikong Filipino | 3 |
| Fil093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| D. Physical Education Courses | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rhythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| E. National Service Training Program | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |
| F. Institutional Courses | | <u>7</u> |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 |
| TOTAL UNITS | | <u>189</u> |

**BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING
GENERAL SUMMARY OF COURSES**

I. TECHNICAL COURSES

| | | |
|--------------------------------------|---|-----------|
| A. Mathematics | | 12 |
| MATH153A | Calculus 1 | 3 |
| MATH153B | Calculus 2 | 3 |
| MATH223 | Differential Equations | 3 |
| MATH323 | Engineering Data Analysis | 3 |
| B. Natural/Physical Sciences | | 8 |
| CHM083 | Chemistry for Engineers | 3 |
| CHM081L | Chemistry for Engineers Lab | 1 |
| PHY083 | Physics for Engineers | 3 |
| PHY081L | Physics for Engineers Lab | 1 |
| C. Basic Engineering Sciences | | 6 |
| Drw051L | Computer Aided Drafting | 1 |
| ENGG103 | Engineering Economics | 3 |
| ENGG112 | Engineering Management | 2 |
| D. Allied Courses | | 23 |
| CoENG002L | Computer Fundamentals and Programming Lab | 2 |
| ECE013A | Circuits I | 3 |
| ECE011A-L | Circuits I Lab | 1 |
| ECE013B | Circuits II | 3 |
| ECE011B-L | Circuits II Lab | 1 |
| ENGG043 | Materials Science and Engineering | 3 |
| ENGG083 | Environmental Science and Engineering | 3 |
| ENGG193 | Technopreneurship | 3 |
| PHY103 | Physics | 3 |
| PHY101L | Physics Lab | 1 |
| E. Professional Courses | | 61 |
| ECE024 | Electromagnetics | 4 |
| ECE033A | Electronics I | 3 |
| ECE031A-L | Electronics I Lab | 1 |
| ECE033B | Electronics II | 3 |
| ECE031B-L | Electronics II Lab | 1 |
| ECE033C | Electronics III | 3 |
| ECE031C-L | Electronics III Lab | 1 |
| ECE053B | Signals, Spectra & Signal Processing | 3 |
| ECE051B-L | Signals, Spectra & Signal Processing Lab | 1 |
| ECE083 | Feedback and Control Systems | 3 |
| ECE081L | Feedback and Control Systems Lab | 1 |
| ECE093 | Dig Electro 1: Logic Circuits and Switching Theory | 3 |
| ECE091L | Dig Electro 1: Logic Circuits and Switching Theory Lab | 1 |
| ECE113 | Dig Electro 2: Microprocessor & Microcontroller Systems | 3 |
| ECE111L | Dig Electro 2: Microprocessor & Microcontroller Systems Lab | 1 |
| ECE133B | ECE Laws, Contracts, Ethics, Standards, and Safety | 3 |
| ECE171A-L | Seminars / Colloquium Lab | 1 |
| ECE203 | Comm 1 (Principles of Communication Systems) | 3 |
| ECE201L | Comm 1 (Principles of Communication Systems Lab) | 1 |
| ECE223 | Comm 2 (Modulation and Coding Techniques) | 3 |
| ECE221L | Comm 2 (Modulation and Coding Techniques Lab) | 1 |
| ECE243 | Comm 3 (Data Communications) | 3 |
| ECE241L | Comm 3 (Data Communications Lab) | 1 |
| ECE263 | Comm 4 (Transmission Media and Antenna Systems) | 3 |
| ECE261L | Comm 4 (Transmission Media and Antenna Systems Lab) | 1 |
| ECE383 | Methods of Research | 3 |
| ECE-DPA-L | ECE Design 1 Lab | 1 |
| ECE-DPB-L | ECE Design 2 Lab | 1 |
| MATHECE253 | Advanced Engineering Mathematics for ECE | 3 |
| MATHECE251L | Advanced Engineering Mathematics for ECE Lab | 1 |
| F. Technical Electives | | 8 |
| ECE-ELEC1 | ECE Elective 1 | 3 |
| ECE-ELEC1L | ECE Elective 1 Lab | 1 |
| ECE-ELEC2 | ECE Elective 2 | 3 |
| ECE-ELEC2L | ECE Elective 2 Lab | 1 |
| G. On the Job Training | | 3 |
| EE-PRC3 | Practicum (300 hrs) | 3 |
| H. Letran Thrust Courses | | 12 |
| ECE-ST006 | Special Topics for ECE | 6 |
| LQEC703 | Letran Quality Enrichment Course 70 | 3 |
| LQEC713 | Letran Quality Enrichment Course 71 | 3 |

II. NON-TECHNICAL COURSES

| | | | |
|--------------------------------------|---|---|------------|
| A. General Education Courses | | | 24 |
| GEC003 | Understanding the Self | 3 | |
| GEC013 | Science, Technology and Society | 3 | |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | |
| GEC033 | Mathematics in the Modern World | 3 | |
| GEC043 | The Contemporary World | 3 | |
| GEC053 | Art Appreciation | 3 | |
| GEC063 | Purposive Communication | 3 | |
| GEC073 | Ethics | 3 | |
| B. Mandated Courses | | | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | |
| C. Filipino and Literature Courses | | | 9 |
| FI083 | Komunikasyon sa Akademikong Filipino | 3 | |
| FI093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | |
| FIL113 | Panitikang Filipino | 3 | |
| D. Physical Education Courses | | | 8 |
| PE002-18 | Physical Fitness and Related Activities | 2 | |
| PE022-18 | Rhythmic Activities | 2 | |
| PE032-18 | Individual/Dual Sports | 2 | |
| PE042-18 | Team Sports | 2 | |
| E. National Service Training Program | | | 6 |
| NSTP1-18 | National Service Training Program 1 | 3 | |
| NSTP2-18 | National Service Training Program 2 | 3 | |
| F. Institutional Courses | | | 7 |
| RELED051 | The Catholic Christian Faith | 1 | |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | |
| RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 | |
| TOTAL UNITS | | | 190 |

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

GENERAL SUMMARY OF COURSES

I. TECHNICAL COURSES

| | | |
|-------------------------------|---|-----------|
| A. Mathematics | | 9 |
| MATH153A | Calculus 1 | 3 |
| MATH153B | Calculus 2 | 3 |
| MATH223 | Differential Equations | 3 |
| B. Natural/Physical Sciences | | 8 |
| CHM083 | Chemistry for Engineers | 3 |
| CHM081L | Chemistry for Engineers Lab | 1 |
| PHY083 | Physics for Engineers | 3 |
| PHY081L | Physics for Engineers Lab | 1 |
| C. Basic Engineering Sciences | | 15 |
| CoENG002L | Computer Fundamentals and Programming Lab | 2 |
| Drw051L | Computer Aided Drafting | 1 |
| ENGG013 | Engineering Mechanics | 3 |
| ENGG103 | Engineering Economics | 3 |
| ENGG183 | Basic Occupational Safety and Health | 3 |
| ENGG193 | Technopreneurship | 3 |
| D. Allied Courses | | 18 |
| ACT033D | Financial Accounting | 3 |
| ACT043D | Managerial Accounting | 3 |
| ECON013 | Principles of Economics | 3 |
| EE013B | Elementary Electrical Engineering | 3 |
| ENGG073 | Thermodynamics | 3 |
| ENGG083 | Environmental Science and Engineering | 3 |
| E. Professional Courses | | 59 |
| IE013A | Statistical Analysis for Industrial Engineers 1 | 3 |
| IE013B | Statistical Analysis for Industrial Engineers 2 | 3 |
| IE032A | Ergonomics 1 | 2 |
| IE031A-L | Ergonomics 1 Lab | 1 |
| IE032B | Ergonomics 2 | 2 |
| IE031B-L | Ergonomics 2 Lab | 1 |
| IE082A | Industrial Materials and Processes | 2 |
| IE081A-L | Industrial Materials and Processes Lab | 1 |
| IE113C | Operations Research 1 | 3 |
| IE113D | Operations Research 2 | 3 |
| IE203 | Industrial Organization and Management | 3 |
| IE213 | Work Study and Measurement | 3 |
| IE211L | Work Study and Measurement Lab | 1 |
| IE223 | Quality Management Systems | 3 |
| IE233 | Systems Engineering | 3 |
| IE243 | Operations Management | 3 |
| IE241L | Operations Management Lab | 1 |
| IE253 | Advanced Mathematics for Industrial Engineering | 3 |
| IE263 | Supply Chain Management | 3 |
| IE273 | Information Systems | 3 |
| IE-CP | IE Capstone Project | 1 |
| IE-CP-L | IE Capstone Project Lab | 2 |
| IE-PF | Project Feasibility | 2 |
| IE-PF-L | Project Feasibility Lab | 1 |
| IE-PRC6 | Practicum/Industry Immersion (600hrs) | 6 |
| F. Technical Electives | | 9 |
| IElec-1 | IE Elective 1 | 3 |
| IElec-2 | IE Elective 2 | 3 |
| IElec-3 | IE Elective 3 | 3 |
| G. Letran Thrust Courses | | 9 |
| LQEC503 | Letran Quality Enrichment Course 50 | 3 |
| LQEC513 | Letran Quality Enrichment Course 51 | 3 |
| LQEC523 | Letran Quality Enrichment Course 52 | 3 |

II. NON-TECHNICAL COURSES

| | | |
|------------------------------|--|-----------|
| A. General Education Courses | | 24 |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |

| | | | |
|--------------------------------------|----------|---|-------------------|
| B. Mandated Courses | | | <u>3</u> |
| | RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| C. Filipino and Literature Courses | | | <u>9</u> |
| | Fil083 | Komunikasyon sa Akademikong Filipino | 3 |
| | Fil093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| | FIL113 | Panitikang Filipino | 3 |
| D. Physical Education Courses | | | <u>8</u> |
| | PE002-18 | Physical Fitness and Related Activities | 2 |
| | PE022-18 | Rhythmic Activities | 2 |
| | PE032-18 | Individual/Dual Sports | 2 |
| | PE042-18 | Team Sports | 2 |
| E. National Service Training Program | | | <u>6</u> |
| | NSTP1-18 | National Service Training Program 1 | 3 |
| | NSTP2-18 | National Service Training Program 2 | 3 |
| F. Institutional Courses | | | <u>7</u> |
| | RELED051 | The Catholic Christian Faith | 1 |
| | RELED063 | Contemporary Issues in Christian Marriage | 3 |
| | RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 |
| | | TOTAL UNITS | <u>184</u> |

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING
GENERAL SUMMARY OF COURSES**

I. TECHNICAL COURSES

| | | |
|--------------------------------------|---|-----------|
| A. Mathematics | | 19 |
| MATH155A | Calculus 1 | 3 |
| MATH155B | Calculus 2 | 3 |
| MATH223 | Differential Equations | 3 |
| MATH323 | Engineering Data Analysis | 3 |
| MATH332 | Numerical Solutions to CE Problems | 2 |
| MATH331L | Numerical Solutions to CE Problems Lab | 1 |
| B. Natural/Physical Sciences | | 10 |
| CHM083 | Chemistry for Engineers | 3 |
| CHM081L | Chemistry for Engineers Lab | 1 |
| GEO012 | Geology for Civil Engineers | 2 |
| PHY083 | Physics for Engineers | 3 |
| PHY081L | Physics for Engineers Lab | 1 |
| C. Basic Engineering Sciences | | 23 |
| CE002 | Civil Engineering Orientation | 2 |
| CoENG002L | Computer Fundamentals and Programming Lab | 2 |
| DRW001L | Engineering Drawing and Plans | 1 |
| DRW051L | Computer Aided Drafting | 1 |
| ENGG002 | Dynamics of Rigid Bodies | 2 |
| ENGG003 | Statics of Rigid Bodies | 3 |
| ENGG064 | Mechanics of Deformable Bodies | 4 |
| ENGG103 | Engineering Economics | 3 |
| ENGG112 | Engineering Management | 2 |
| ENGG193 | Technopreneurship | 3 |
| D. Allied Courses | | 6 |
| ENGG253 | Engineering Utilities 1 | 3 |
| ENGG263 | Engineering Utilities 2 | 3 |
| E. Professional Courses | | 49 |
| CE013 | Fundamentals of Surveying | 3 |
| CE011L | Fundamentals of Surveying Lab | 1 |
| CE022 | Construction Materials and Testing | 2 |
| CE021L | Construction Materials and Testing Lab | 1 |
| CE033 | Structural Theory | 3 |
| CE031L | Structural Theory Lab | 1 |
| CE043 | Highway and Railroad Engineering | 3 |
| CE052 | Building Systems Design | 2 |
| CE051L | Building Systems Design Lab | 1 |
| CE062 | Principles of Steel Design | 2 |
| CE061L | Principles of Steel Design Lab | 1 |
| CE073 | Principles of Reinforced/Prestressed Concrete | 3 |
| CE071L | Principles of Reinforced/Prestressed Concrete Lab | 1 |
| CE091L | Hydraulics Lab | 1 |
| CE082 | Hydrology | 2 |
| CE094 | Hydraulics | 4 |
| CE102 | C.E. Laws, Ethics, and Contracts | 2 |
| CE113 | Geotechnical Engg 1-Soil Mechanics | 3 |
| CE111L | Geotechnical Engg 1-Soil Mechanics Lab | 1 |
| CE123 | Principles of Transportation Engineering | 3 |
| CE131 | Quantity Surveying | 1 |
| CE131L | Quantity Surveying Lab | 1 |
| CE153 | Construction Methods and Project Management | 3 |
| CE-PJ1 | CE Project 1 | 1 |
| CE-PJ1-L | CE Project 1 Lab | 1 |
| CE-PJ2 | CE Project 2 | 1 |
| CE-PJ2-L | CE Project 2 Lab | 1 |
| F. Specialization Courses | | 15 |
| CE-SP1 | CE Specialized Course 1 | 3 |
| CE-SP2 | CE Specialized Course 2 | 3 |
| CE-SP3 | CE Specialized Course 3 | 3 |
| CE-SP4 | CE Specialized Course 4 | 3 |
| CE-SP5 | CE Specialized Course 5 | 3 |
| G. On-the-Job Training | | 3 |
| CE-PRC | On-the-Job Training (300 hrs) | 2 |
| CE-PRC-L | On-the-Job Training Lab | 1 |
| H. Institutional Courses | | 21 |
| CE-ST112 | Special Topics for CE | 12 |
| LQEC763 | Letran Quality Enrichment Course 76 | 3 |
| LQEC773 | Letran Quality Enrichment Course 77 | 3 |
| LQEC783 | Letran Quality Enrichment Course 78 | 3 |

II. NON-TECHNICAL COURSES

| | | |
|--------------------------------------|---|------------------|
| A. General Education Courses | | <u>24</u> |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| B. Mandated Courses | | <u>3</u> |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| C. Filipino and Literature Courses | | <u>9</u> |
| Fil083 | Komunikasyon sa Akademikong Filipino | 3 |
| Fil093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| D. Physical Education Courses | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rhythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| E. National Service Training Program | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |
| F. Institutional Courses | | <u>7</u> |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 |

TOTAL UNITS **203**

**BACHELOR OF SCIENCE IN ARCHITECTURE
GENERAL SUMMARY OF COURSES**

I. TECHNICAL COURSES

| | | |
|-------------------------------------|--|-------------------|
| A. Mathematics | | <u>5</u> |
| MATH183 | Differential and Integral Calculus | 3 |
| MATH212 | Solid Mensuration | 2 |
| B. Basic Engineering Courses | | <u>18</u> |
| ENGG003 | Statics of Rigid Bodies | 3 |
| ENGG063A | Strength of Materials | 3 |
| ENGG272 | Surveying | 2 |
| ENGG271L | Surveying Lab | 1 |
| ENGG283 | Theory of Structures | 3 |
| ENGG293 | Steel and Timber Design | 3 |
| ENGG303 | Architectural Structures | 3 |
| C. Allied Courses | | <u>12</u> |
| ARCHI021 | Archi Vis Com 1 - Graphics 1 | 1 |
| ARCHI022L | Archi Vis Com 1 - Graphics 1 Lab | 2 |
| ARCHI041 | Archi Vis Com 2 - Visual Techniques 1 | 1 |
| ARCHI041L | Archi Vis Com 2 - Visual Techniques 1 Lab | 1 |
| ARCHI061 | Archi Vis Com 3 - Graphics 2 | 1 |
| ARCHI062L | Archi Vis Com 3 - Graphics 2 Lab | 2 |
| ARCHI081 | Archi Vis Com 4 - Visual Techniques 2 | 1 |
| ARCHI081L | Archi Vis Com 4 - Visual Techniques 2 Lab | 1 |
| ARCHI101 | Archi Vis Com 5 - Visual Techniques 3 | 1 |
| ARCHI101L | Archi Vis Com 5 - Visual Techniques 3 Lab | 1 |
| D. Professional Courses | | <u>111</u> |
| ARCHI011 | Archi Dsgn 1 - Introduction to Design | 1 |
| ARCHI011L | Archi Dsgn 1 - Introduction to Design Lab | 1 |
| ARCHI031 | Theory of Architecture 1 | 1 |
| ARCHI031L | Theory of Architecture 1 Lab | 1 |
| ARCHI051 | Archi Dsgn 2 - Creative Design Fundamentals | 1 |
| ARCHI051L | Archi Dsgn 2 - Creative Design Fundamentals Lab | 1 |
| ARCHI072 | Theory of Architecture 2 | 2 |
| ARCHI091 | Archi Dsgn 3 - Creative Design in Architectural Interiors | 1 |
| ARCHI092L | Archi Dsgn 3 - Creative Design in Architectural Interiors Lab | 2 |
| ARCHI113 | Bldg Tech 1 - Building Materials | 3 |
| ARCHI121 | Architectural Interiors | 1 |
| ARCHI121L | Architectural Interiors Lab | 1 |
| ARCHI132 | History of Architecture 1 | 2 |
| ARCHI141 | Archi Dsgn 4 - Space Planning 1 | 1 |
| ARCHI142L | Archi Dsgn 4 - Space Planning 1 Lab | 2 |
| ARCHI152 | Bldg Tech 2 - Construction Drawings in 1-Storey Building | 2 |
| ARCHI151L | Bldg Tech 2 - Construction Drawings in 1-Storey Building Lab | 1 |
| ARCHI162 | Bldg Util 1 - Plumbing and Sanitary Systems | 2 |
| ARCHI161L | Bldg Util 1 - Plumbing and Sanitary Systems Lab | 1 |
| ARCHI172 | Tropical Design | 2 |
| ARCHI182 | History of Architecture 2 | 2 |
| ARCHI191 | Archi Dsgn 5 - Space Planning 2 | 1 |
| ARCHI193L | Archi Dsgn 5 - Space Planning 2 Lab | 3 |
| ARCHI202 | Bldg Tech 3 - Construction Drawings in 2-Storey Building | 2 |
| ARCHI201L | Bldg Tech 3 - Construction Drawings in 2-Storey Building Lab | 1 |
| ARCHI212 | Bldg Util 2 - Electrical, Electronics, and Mechanical Systems | 2 |
| ARCHI211L | Bldg Util 2 - Electrical, Electronics, and Mechanical Systems Lab | 1 |
| ARCHI222 | History of Architecture 3 | 2 |
| ARCHI233 | Prof Prac 1 - Laws Affecting the Practice of Architecture | 3 |
| ARCHI241 | CADD for Architecture 1 | 1 |
| ARCHI241L | CADD for Architecture 1 Lab | 1 |
| ARCHI251 | Archi Dsgn 6 - Site Development Planning and Landscaping | 1 |
| ARCHI253L | Archi Dsgn 6 - Site Development Planning and Landscaping Lab | 3 |
| ARCHI262 | Bldg Tech 4 - Specification Writing and Quantity Surveying | 2 |
| ARCHI261L | Bldg Tech 4 - Specification Writing and Quantity Surveying Lab | 1 |
| ARCHI272 | Bldg Util 3 - Acoustics and Lighting Systems | 2 |
| ARCHI271L | Bldg Util 3 - Acoustics and Lighting Systems Lab | 1 |
| ARCHI282 | History of Architecture 4 | 2 |
| ARCHI293 | Prof Prac 2 - Administering the Regular Services of the Architecture | 3 |
| ARCHI303 | Plan 1 - Site Planning and Landscape Architecture | 3 |
| ARCHI311 | CADD for Architecture 2 | 1 |
| ARCHI311L | CADD for Architecture 2 Lab | 1 |

| | | |
|--------------------------------------|---|-------------------|
| ARCHI321 | Archi Dsgn 7 - Community Architecture and Urban Design | 1 |
| ARCHI324L | Archi Dsgn 7 - Community Architecture and Urban Design Lab | 4 |
| ARCHI332 | Bldg Tech 5 - Alternative Building Construction Systems | 2 |
| ARCHI331L | Bldg Tech 5 - Alternative Building Construction Systems Lab | 1 |
| ARCHI343 | Plan 2 - Fundamentals of Urban Design and Community Architecture | 3 |
| ARCHI351 | Archi Dsgn 8 - Design of Complex Structures | 1 |
| ARCHI354L | Archi Dsgn 8 - Design of Complex Structures Lab | 4 |
| ARCHI363 | Plan 3 - Introduction to Urban and Regional Planning | 3 |
| ARCHI373 | Prof Prac 3 - Global Practice for the 21st Century | 3 |
| ARCHI383 | Research Methods for Architecture | 3 |
| ARCHI392 | Housing | 2 |
| ARCHI403 | Business Management and Application for Architecture 1 | 3 |
| ARCHI411 | Archi Dsgn 9 - Thesis Research Writing | 1 |
| ARCHI414L | Archi Dsgn 9 - Thesis Research Writing Lab | 4 |
| ARCHI423 | Business Management and Application for Architecture 2 | 3 |
| ARCHI431 | Archi Dsgn 10 - Thesis Research Application | 1 |
| ARCHI434L | Archi Dsgn 10 - Thesis Research Application Lab | 4 |
| E. Specialization Courses | | <u>9</u> |
| ARCHI-SP1 | Specialization Course 1 | 3 |
| ARCHI-SP2 | Specialization Course 2 | 3 |
| ARCHI-SP3 | Specialization Course 3 | 3 |
| II. NON-TECHNICAL COURSES | | |
| A. General Education Courses | | <u>24</u> |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| B. Mandated Courses | | <u>3</u> |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| C. Filipino Courses | | <u>9</u> |
| FIL083 | Komunikasyon sa Akademikong Filipino | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| D. Physical Education Courses | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rhythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| E. National Service Training Program | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |
| F. Institutional Courses | | <u>19</u> |
| LQEC823 | Letran Quality Enrichment Course 82 | 3 |
| LQEC833 | Letran Quality Enrichment Course 83 | 3 |
| LQEC843 | Letran Quality Enrichment Course 84 | 3 |
| LQEC853 | Letran Quality Enrichment Course 85 | 3 |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 |
| TOTAL UNITS | | <u>224</u> |

BACHELOR OF SCIENCE IN NURSING

GENERAL SUMMARY OF COURSES

| | | |
|--------------------------------------|---|-----------|
| I. General Education Courses | | 24 |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| II. Mandated Courses | | |
| A. Physical Education Courses | | 8 |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rhythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| B. National Service Training Program | | 6 |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |
| C. Rizal Course | | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| D. Filipino Courses | | 9 |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| III. Institutional Courses | | |
| A. Religious Education Courses | | 7 |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues about Church and Human Society with Immersion | 3 |
| B. Integrative Courses | | 24 |
| LQEC861 | Letran Quality Enrichment Course 86 | 1 |
| LQEC872 | Letran Quality Enrichment Course 87 | 2 |
| LQEC883 | Letran Quality Enrichment Course 88 | 3 |
| LQEC893 | Letran Quality Enrichment Course 89 | 3 |
| LQEC903 | Letran Quality Enrichment Course 90 | 3 |
| LQEC913 | Letran Quality Enrichment Course 91 | 3 |
| LQEC923 | Letran Quality Enrichment Course 92 | 3 |
| NCEP006 | Nursing Comprehensive Enhancement Program | 6 |
| IV. Major Courses | | 17 |
| AnaPhys003 | Anatomy & Physiology | 3 |
| AnaPhys002L | Anatomy & Physiology Lab | 2 |
| CHM073 | Biochemistry | 3 |
| CHM072L | Biochemistry Lab | 2 |
| McroPra063 | Microbiology & Parasitology | 3 |
| McroPra061L | Microbiology & Parasitology Lab | 1 |
| Phi093N | Logic and Critical Thinking | 3 |

BACHELOR OF SCIENCE IN NURSING

GENERAL SUMMARY OF COURSES

| V. Professional Courses | | 125 |
|-------------------------|---|------------|
| NCM100-18 | Theoretical Foundations in Nursing | 3 |
| NCM101-18 | Health Assessment (HA) | 3 |
| NCM102-18 | Health Education | 3 |
| NCM103-18 | Fundamentals of Nursing Practice (FNP) | 3 |
| NCM104-18 | Community Health Nursing I (CHN I) | 2 |
| NCM105-18 | Nutrition and Diet Therapy | 2 |
| NCM105L-18 | Nutrition and Diet Therapy Lab | 1 |
| NCM106-18 | Pharmacology | 3 |
| NCM107-18 | Care of Mother, Child, Adolescent (Well Client) | 4 |
| NCM108-18 | Health Care Ethics | 3 |
| NCM109-18 | Care of Mother and Child at Risk or With Problems | 6 |
| NCM110-18 | Nursing Informatics | 2 |
| NCM110L-18 | Nursing Informatics Lab | 1 |
| NCM111-18 | Nursing Research I | 2 |
| NCM112-18 | Care of Clients with Problems in Oxygenation, Fluids and Electrolyte, Infectious, Inflammatory and Immunologic Response, Cellular Aberration, Acute and Chronic | 8 |
| NCM113-18 | Community Health Nursing II (CHN II) Population Groups and Community as Clients | 2 |
| NCM114-18 | Care of the Older Person | 2 |
| NCM116-18 | Care of Clients with Problems in Nutrition, GI Metabolism and Endocrine, Perception and Coordination, Acute and Chronic | 5 |
| NCM117-18 | Care of Clients with Maladaptive Patterns of Behavior, Acute and Chronic | 4 |
| NCM118-18 | Nursing Care of Clients with Life Threatening Conditions/ acutely ill/multi-organ problems/high acuity and emergency situations, Acute and Chronic | 4 |
| NCM119-18 | Nursing Leadership and Management | 4 |
| NCM120-18 | Decent Work Employment and Transcultural Nursing | 3 |
| NCM121-18 | Disaster Preparedness Nursing | 2 |
| NCM122-18 | Intensive Nursing Practicum (Hospital and Community Setting) | 408hrs 8 |
| RLE101-18 | Related Learning Experiences (HA) | 102hrs 2 |
| RLE103-18 | Related Learning Experiences (FNP) | 102hrs 2 |
| RLE104-18 | Related Learning Experiences (CHN I) | 102hrs 2 |
| RLE107-18 | Related Learning Experiences (MCN I) | 255hrs 5 |
| RLE109-18 | Related Learning Experiences (MCN II) | 306hrs 6 |
| RLE111-18 | RLE - Nursing Research I | 51hrs 1 |
| RLE112-18 | Related Learning Experiences (MS I) | 306hrs 6 |
| RLE113-18 | Related Learning Experiences (CHN II) | 51hrs 1 |
| RLE114-18 | Related Learning Experiences (COP) | 51hrs 1 |
| RLE115-18 | RLE - Nursing Research II | 102hrs 2 |
| RLE116-18 | Related Learning Experiences (MS II) | 204hrs 4 |
| RLE117-18 | Related Learning Experiences (PSYCH) | 204hrs 4 |
| RLE118-18 | Related Learning Experiences (EN) | 255hrs 5 |
| RLE119-18 | Related Learning Experiences (NLM) | 153hrs 3 |
| RLE121-18 | Related Learning Experiences (DN) | 51hrs 1 |
| | | 2,703hrs |
| | TOTAL UNITS | 223 |

**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY
GENERAL SUMMARY OF COURSES**

I. General Education Courses

| | | |
|--------------------------------------|---|------------------|
| A. Core Courses | | <u>24</u> |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics and the Modern World | 3 |
| GEC043 | Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| B. Mandatory Course | | <u>3</u> |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| C. Filipino Courses | | <u>9</u> |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| D. Institutional Mandated Courses | | <u>11</u> |
| LQEC1001 | Letran Quality Enrichment Course 100 | 1 |
| LQEC971 | Letran Quality Enrichment Course 97 | 1 |
| LQEC981 | Letran Quality Enrichment Course 98 | 1 |
| LQEC991 | Letran Quality Enrichment Course 99 | 1 |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| E. Physical Education Courses | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| F. National Service Training Program | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |

II. Professional Courses

| | | |
|------------------------------|--|------------------|
| A. Common Computing Courses | | <u>18</u> |
| COMP042 | Data Structures and Algorithms | 2 |
| COMP041L | Data Structures and Algorithms Lab | 1 |
| COMP112 | Information Management | 2 |
| COMP111L | Information Management Lab | 1 |
| COMP303 | Introduction to Computing | 3 |
| COMP312 | Computer Programming I | 2 |
| COMP311L | Computer Programming I Lab | 1 |
| COMP332 | Computer Programming II | 2 |
| COMP331L | Computer Programming II Lab | 1 |
| COMP462 | Applications Development and Emerging Technologies | 2 |
| COMP461L | Applications Development and Emerging Technologies Lab | 1 |
| B. BSIT Professional Courses | | <u>51</u> |
| CSIT111A-L | Web Technologies I | 1 |
| CSIT111B-L | Web Technologies II | 1 |
| CSIT121A-L | Mobile Programming I | 1 |
| CSIT121B-L | Mobile Programming II | 1 |
| CSIT132 | Quantitative Methods | 2 |
| CSIT131L | Quantitative Methods Lab | 1 |
| CSIT173 | System Analysis and Design | 3 |
| CSIT183 | Social Issues and Professional Practice | 3 |
| CSIT202 | Systems Integration and Architecture | 2 |
| CSIT201L | Systems Integration and Architecture Lab | 1 |
| CSIT252A | Networking I | 2 |
| CSIT251A-L | Networking I Lab | 1 |
| CSIT252B | Networking II | 2 |
| CSIT251B-L | Networking II Lab | 1 |
| CSIT312 | Database Systems | 2 |
| CSIT311L | Database Systems Lab | 1 |
| CSIT332 | Intro to Human Computer Interaction | 2 |

| | | | | |
|----------------------------------|------------|--|---|-------------------|
| | CSIT331L | Intro to Human Computer Interaction Lab | 1 | |
| | CSIT342A | Information Assurance and Security I | 2 | |
| | CSIT341A-L | Information Assurance and Security I Lab | 1 | |
| | CSIT342B | Information Assurance and Security II | 2 | |
| | CSIT341B-L | Information Assurance and Security II Lab | 1 | |
| | CSIT362A | Object Oriented Programming I | 2 | |
| | CSIT361A-L | Object Oriented Programming I Lab | 1 | |
| | CSIT362B | Object-Oriented Programming II | 2 | |
| | CSIT361B-L | Object-Oriented Programming II Lab | 1 | |
| | CSIT372 | Integrative Programming and Technologies I | 2 | |
| | CSIT371L | Integrative Programming and Technologies I Lab | 1 | |
| | CSIT401A-L | Robotics I | 1 | |
| | CSIT401B-L | Robotics II | 1 | |
| | CSIT423 | Systems Administration and Maintenance | 3 | |
| | MATH283 | Discrete Mathematics | 3 | |
| C. Thesis | | | | <u>6</u> |
| | IT-CP1 | Capstone Project I | 3 | |
| | IT-CP2 | Capstone Project II | 3 | |
| D. Practicum/On the Job Training | | | | <u>6</u> |
| | IT-PRC6 | Practicum (600hrs) | 6 | |
| E. Professional Electives | | | | <u>12</u> |
| | ITELEC-1 | IT Elective 1 | 3 | |
| | ITELEC-2 | IT Elective 2 | 3 | |
| | ITELEC-3 | IT Elective 3 | 3 | |
| | ITElec-4 | IT Elective 4 | 3 | |
| | | TOTAL UNITS | | <u>154</u> |

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

GENERAL SUMMARY OF COURSES

I. General Education Courses

| | | |
|--------------------------------------|---|------------------|
| A. Core Courses | | <u>24</u> |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics and the Modern World | 3 |
| GEC043 | Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| B. Mandatory Course | | <u>3</u> |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| C. Filipino Courses | | <u>9</u> |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| D. Institutional Mandated Courses | | <u>11</u> |
| LQEC931 | Letran Quality Enrichment Course 93 | 1 |
| LQEC941 | Letran Quality Enrichment Course 94 | 1 |
| LQEC951 | Letran Quality Enrichment Course 95 | 1 |
| LQEC961 | Letran Quality Enrichment Course 96 | 1 |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| E. Physical Education Courses | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| F. National Service Training Program | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |

II. Professional Courses

| | | |
|------------------------------|--|------------------|
| A. Common Computing Courses | | <u>18</u> |
| COMP042 | Data Structures and Algorithms | 2 |
| COMP041L | Data Structures and Algorithms Lab | 1 |
| COMP112 | Information Management | 2 |
| COMP111L | Information Management Lab | 1 |
| COMP303 | Introduction to Computing | 3 |
| COMP312 | Computer Programming I | 2 |
| COMP311L | Computer Programming I Lab | 1 |
| COMP332 | Computer Programming II | 2 |
| COMP331L | Computer Programming II Lab | 1 |
| COMP462 | Applications Development and Emerging Technologies | 2 |
| COMP461L | Applications Development and Emerging Technologies Lab | 1 |
| B. BSCS Professional Courses | | <u>60</u> |
| CSIT142A | Software Engineering I | 2 |
| CSIT141A-L | Software Engineering I Lab | 1 |
| CSIT142B | Software Engineering II | 2 |
| CSIT141B-L | Software Engineering II Lab | 1 |
| CSIT153 | Algorithms and Complexity | 3 |
| CSIT163 | Architecture and Organization | 3 |
| CSIT183 | Social Issues and Professional Practice | 3 |
| CSIT192 | Operating Systems | 2 |
| CSIT191L | Operating Systems Lab | 1 |
| CSIT252 | Networking | 2 |
| CSIT251L | Networking Lab | 1 |
| CSIT273 | Automata Theory and Formal Languages | 3 |
| CSIT323A | Discrete Structures I | 3 |

| | | | |
|----------------------------------|--|--------------------|-------------------|
| CSIT323B | Discrete Structures II | 3 | |
| CSIT332 | Intro to Human Computer Interaction | 2 | |
| CSIT331L | Intro to Human Computer Interaction Lab | 1 | |
| CSIT342 | Information Assurance and Security | 2 | |
| CSIT341L | Information Assurance and Security Lab | 1 | |
| CSIT362 | Object-Oriented Programming | 2 | |
| CSIT361L | Object-Oriented Programming Lab | 1 | |
| CSIT382 | Software Quality Assurance | 2 | |
| CSIT381L | Software Quality Assurance Lab | 1 | |
| CSIT392 | Programming Languages | 2 | |
| CSIT391L | Programming Languages Lab | 1 | |
| CSIT401A-L | Robotics I | 1 | |
| CSIT401B-L | Robotics II | 1 | |
| MATH065 | Differential Calculus with Analytic Geometry | 5 | |
| MATH195 | Integral Calculus with Differential Equation | 5 | |
| MATH293 | Probability and Statistics | 3 | |
| C. Thesis | | | <u>6</u> |
| CS-THS1 | CS Thesis I | 3 | |
| CS-THS2 | CS Thesis II | 3 | |
| D. Practicum/On the Job Training | | | <u>6</u> |
| CS-PRC6 | Internship (600hrs) | 6 | |
| E. Professional Electives | | | <u>9</u> |
| CSElec-1 | CS Elective 1 | 3 | |
| CSElec-2 | CS Elective 2 | 3 | |
| CSElec-3 | CS Elective 3 | 3 | |
| | | TOTAL UNITS | <u>160</u> |

**BACHELOR OF SCIENCE IN ENTERTAINMENT AND MULTIMEDIA COMPUTING
Specializing in DIGITAL ANIMATION TECHNOLOGY**

GENERAL SUMMARY OF COURSES

I. General Education Courses

| | | |
|---|---|------------------|
| A. Core Courses | | <u>24</u> |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics and the Modern World | 3 |
| GEC043 | Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| B. Mandatory Course | | <u>3</u> |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| C. Filipino Courses | | <u>9</u> |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| D. Institutional Mandated Courses | | <u>11</u> |
| LQEC1011 | Letran Quality Enrichment Course 101 | 1 |
| LQEC1021 | Letran Quality Enrichment Course 102 | 1 |
| LQEC1031 | Letran Quality Enrichment Course 103 | 1 |
| LQEC1041 | Letran Quality Enrichment Course 104 | 1 |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| E. Physical Education Courses | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| F. National Service Training Program | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |

II. Professional Courses

| | | |
|------------------------------------|--|------------------|
| A. Common Computing Courses | | <u>18</u> |
| COMP042 | Data Structures and Algorithms | 2 |
| COMP041L | Data Structures and Algorithms Lab | 1 |
| COMP112 | Information Management | 2 |
| COMP111L | Information Management Lab | 1 |
| COMP303 | Introduction to Computing | 3 |
| COMP312 | Computer Programming I | 2 |
| COMP311L | Computer Programming I Lab | 1 |
| COMP332 | Computer Programming II | 2 |
| COMP331L | Computer Programming II Lab | 1 |
| COMP462 | Applications Development and Emerging Technologies | 2 |
| COMP461L | Applications Development and Emerging Technologies Lab | 1 |
| B. EMC Core Courses | | <u>27</u> |
| EMCT002 | Freehand and Digital Drawing | 2 |
| EMCT001L | Freehand and Digital Drawing Lab | 1 |
| EMCT012 | Introduction to Game Design and Development | 2 |
| EMCT011L | Introduction to Game Design and Development Lab | 1 |
| EMCT023 | Usability, HCI, UI Design | 3 |
| EMCT032 | Computer Graphics Programming | 2 |
| EMCT031L | Computer Graphics Programming Lab | 1 |
| EMCT042 | Principles of 2D Animation | 2 |
| EMCT041L | Principles of 2D Animation Lab | 1 |
| EMCT052 | Audio Design and Sound Engineering | 2 |
| EMCT051L | Audio Design and Sound Engineering Lab | 1 |
| EMCT062 | Script Writing and Storyboard Design | 2 |
| EMCT061L | Script Writing and Storyboard Design Lab | 1 |
| EMCT072 | Principles of 3D Animation | 2 |
| EMCT071L | Principles of 3D Animation Lab | 1 |
| EMCT083 | Design and Production Process | 3 |

| | | |
|--|---|-------------------|
| C. EMC Professional Courses - Digital Animation Technology | | <u>27</u> |
| DATC012 | Image and Video Processing | 2 |
| DATC011L | Image and Video Processing Lab | 1 |
| DATC022 | Advanced 2D Animation | 2 |
| DATC021L | Advanced 2D Animation Lab | 1 |
| DATC032 | Lighting and Effects | 2 |
| DATC031L | Lighting and Effects Lab | 1 |
| DATC042 | Compositing and Rendering | 2 |
| DATC041L | Compositing and Rendering Lab | 1 |
| DATC052 | Modelling and Rigging | 2 |
| DATC051L | Modelling and Rigging Lab | 1 |
| DATC062 | Advanced 3D Animation and Scripting | 2 |
| DATC061L | Advanced 3D Animation and Scripting Lab | 1 |
| DATC072 | Advanced Sound Production | 2 |
| DATC071L | Advanced Sound Production Lab | 1 |
| DATC082 | Texture and Mapping | 2 |
| DATC081L | Texture and Mapping Lab | 1 |
| DATC092 | Animation Design and Production | 2 |
| DATC091L | Animation Design and Production Lab | 1 |
| D. Capstone | | |
| DATC-CP1 | Capstone Project 1 | 3 |
| DATC-CP2 | Capstone Project 2 | 3 |
| E. Practicum/On the Job Training | | <u>9</u> |
| DATC-PRC6 | Internship (600hrs) | 9 |
| F. Electives | | <u>9</u> |
| EMC-ELEC012 | EMC Elective 1 | 2 |
| EMC-ELEC011L | EMC Elective 1 Lab | 1 |
| EMC-ELEC022 | EMC Elective 2 | 2 |
| EMC-ELEC021L | EMC Elective 2 Lab | 1 |
| EMC-ELEC032 | EMC Elective 3 | 2 |
| EMC-ELEC031L | EMC Elective 3 Lab | 1 |
| TOTAL UNITS | | <u>157</u> |

BACHELOR OF SCIENCE IN ENTERTAINMENT AND MULTIMEDIA COMPUTING
Specializing in GAME DEVELOPMENT

GENERAL SUMMARY OF COURSES

I. General Education Courses

| | | |
|---|---|------------------|
| A. Core Courses | | <u>24</u> |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics and the Modern World | 3 |
| GEC043 | Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| B. Mandatory Course | | <u>3</u> |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| C. Filipino Courses | | <u>9</u> |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| D. Institutional Mandated Courses | | <u>11</u> |
| LQEC1051 | Letran Quality Enrichment Course 105 | 1 |
| LQEC1061 | Letran Quality Enrichment Course 106 | 1 |
| LQEC1071 | Letran Quality Enrichment Course 107 | 1 |
| LQEC1081 | Letran Quality Enrichment Course 108 | 1 |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |
| E. Physical Education Courses | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 |
| PE022-18 | Rythmic Activities | 2 |
| PE032-18 | Individual/Dual Sports | 2 |
| PE042-18 | Team Sports | 2 |
| F. National Service Training Program | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 |
| NSTP2-18 | National Service Training Program 2 | 3 |

II. Professional Courses

| | | |
|------------------------------------|--|------------------|
| A. Common Computing Courses | | <u>18</u> |
| COMP042 | Data Structures and Algorithms | 2 |
| COMP041L | Data Structures and Algorithms Lab | 1 |
| COMP112 | Information Management | 2 |
| COMP111L | Information Management Lab | 1 |
| COMP303 | Introduction to Computing | 3 |
| COMP312 | Computer Programming I | 2 |
| COMP311L | Computer Programming I Lab | 1 |
| COMP332 | Computer Programming II | 2 |
| COMP331L | Computer Programming II Lab | 1 |
| COMP462 | Applications Development and Emerging Technologies | 2 |
| COMP461L | Applications Development and Emerging Technologies Lab | 1 |
| B. EMC Core Courses | | <u>27</u> |
| EMCT002 | Freehand and Digital Drawing | 2 |
| EMCT001L | Freehand and Digital Drawing Lab | 1 |
| EMCT012 | Introduction to Game Design and Development | 2 |
| EMCT011L | Introduction to Game Design and Development Lab | 1 |
| EMCT023 | Usability, HCI, UI Design | 3 |
| EMCT032 | Computer Graphics Programming | 2 |
| EMCT031L | Computer Graphics Programming Lab | 1 |
| EMCT042 | Principles of 2D Animation | 2 |
| EMCT041L | Principles of 2D Animation Lab | 1 |
| EMCT052 | Audio Design and Sound Engineering | 2 |
| EMCT051L | Audio Design and Sound Engineering Lab | 1 |
| EMCT062 | Script Writing and Storyboard Design | 2 |
| EMCT061L | Script Writing and Storyboard Design Lab | 1 |
| EMCT072 | Principles of 3D Animation | 2 |
| EMCT071L | Principles of 3D Animation Lab | 1 |
| EMCT083 | Design and Production Process | 3 |

| | | |
|--|--------------------------------------|-------------------|
| C. EMC Professional Courses - Game Development | | <u>27</u> |
| GDVT012 | Game Programming I | 2 |
| GDVT011L | Game Programming I Lab | 1 |
| GDVT022 | Game Programming II | 2 |
| GDVT021L | Game Programming II Lab | 1 |
| GDVT032 | Applied Mathematics for Games | 2 |
| GDVT031L | Applied Mathematics for Games Lab | 1 |
| GDVT042 | Applied Game Physics | 2 |
| GDVT041L | Applied Game Physics Lab | 1 |
| GDVT052 | Game Programming III | 2 |
| GDVT051L | Game Programming III Lab | 1 |
| GDVT062 | Artificial Intelligence in Games | 2 |
| GDVT061L | Artificial Intelligence in Games Lab | 1 |
| GDVT072 | Advanced Game Design | |
| GDVT071L | Advanced Game Design Lab | 1 |
| GDVT082 | Game Networking | 2 |
| GDVT081L | Game Networking Lab | 1 |
| GDVT092 | Game Production | 2 |
| GDVT091L | Game Production Lab | 1 |
| D. Capstone | | |
| GDVT-CP1 | Capstone Project 1 | 3 |
| GDVT-CP2 | Capstone Project 2 | 3 |
| E. Practicum/On the Job Training | | <u>9</u> |
| GDVT-PRC6 | Internship (600hrs) | 9 |
| F. Electives | | <u>9</u> |
| EMC-ELEC012 | EMC Elective 1 | 2 |
| EMC-ELEC011L | EMC Elective 1 Lab | 1 |
| EMC-ELEC022 | EMC Elective 2 | 2 |
| EMC-ELEC021L | EMC Elective 2 Lab | 1 |
| EMC-ELEC032 | EMC Elective 3 | 2 |
| EMC-ELEC031L | EMC Elective 3 Lab | 1 |
| TOTAL UNITS | | <u>157</u> |

**BACHELOR OF SCIENCE IN HOSPITALITY MANAGEMENT
GENERAL SUMMARY OF COURSES**

| | | | |
|--|--|---|-----------|
| I. General Education Courses | | | |
| A. Core Courses | | | 36 |
| GEC003 | Understanding the Self | 3 | |
| GEC013 | Science, Technology, and Society | 3 | |
| GEC023 | Mga Babasahin Hingil sa Kasaysayan ng Pilipinas | 3 | |
| GEC033 | Mathematics in the Modern World | 3 | |
| GEC043 | The Contemporary World | 3 | |
| GEC053 | Art Appreciation | 3 | |
| GEC063 | Purposive Communication | 3 | |
| GEC073 | Ethics | 3 | |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 | |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | |
| FIL113 | Panitikang Filipino | 3 | |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | |
| B. Institutional Mandated Courses | | | 15 |
| LQEC1093 | Letran Quality Enrichment Course 109 | 3 | |
| LQEC1103 | Letran Quality Enrichment Course 110 | 3 | |
| LQEC1113 | Letran Quality Enrichment Course 111 | 3 | |
| LQEC1123 | Letran Quality Enrichment Course 112 | 3 | |
| PDH1013 | Personality Development for Hospitality Industry | 3 | |
| C. Religious Education Courses | | | 7 |
| RELED051 | The Catholic Christian Faith | 1 | |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 | |
| II. Business and Management Education Courses | | | 6 |
| BMC143 | Operation Management in Tourism and Hospitality Industry | 3 | |
| BMC253 | Strategic Management and TQM in Tourism and Hospitality Industry | 3 | |
| III. Tourism and Hospitality Core | | | 30 |
| TH003 | Macro Perspective of Tourism and Hospitality | 3 | |
| TH013 | Micro Perspective of Tourism and Hospitality | 3 | |
| TH023 | Professional Development and Applied Ethics | 3 | |
| TH033 | Risk Management as Applied to Safety, Security, and Sanitation | 3 | |
| TH053 | Quality Service Management in Tourism and Hospitality Industry | 3 | |
| TH073 | Multicultural Diversity in Workplace for the Tourism Professional | 3 | |
| TH083 | Philippine Culture and Tourism Geography | 3 | |
| TH093 | Legal Aspects in Tourism and Hospitality | 3 | |
| TH103 | Entrepreneurship in Tourism and Hospitality | 3 | |
| TH143 | Tourism and Hospitality Marketing | 3 | |
| IV. Hospitality Professional Courses | | | 30 |
| FL063A | Japanese Language 1 | 3 | |
| FL063B | Japanese Language 2 | 3 | |
| HM061 | Kitchen Essential and Basic Food Preparation | 1 | |
| HM062L | Kitchen Essential and Basic Food Preparation Lab | 2 | |
| HM072 | Fundamentals in Food Service Operation | 2 | |
| HM071L | Fundamentals in Food Service Operation Lab | 1 | |
| HM102 | Fundamentals in Lodging Operations | 2 | |
| HM101L | Fundamentals in Lodging Operations Lab | 1 | |
| HM113 | Supply Chain Management in Hospitality Industry | 3 | |
| HM132 | Applied Business Tools and Technologies | 2 | |
| HM131L | Applied Business Tools and Technologies Lab | 1 | |
| HM152 | Ergonomics and Facilities Planning for the Hospitality Industry | 2 | |
| HM151L | Ergonomics and Facilities Planning for the Hospitality Industry Lab | 1 | |
| HM172 | Introduction to Meeting Incentives, Conferences and Events Management (MICE) | 2 | |
| HM171L | Introduction to Meeting Incentives, Conferences and Events Management (MICE) Lab | 1 | |
| HM183 | Tourism Research, Methods, and Techniques | 3 | |
| V. Professional Elective Courses | | | 15 |
| HMElec-1 | Front Office Operation | 3 | |
| HMElec-2 | Quick Food Service Operation | 3 | |
| HMElec-3 | Catering Management | 1 | |
| HMElec-3L | Catering Management Lab | 2 | |
| HMElec-4 | Revenue Management | 3 | |
| HMElec-5 | Gastronomy (Food and Culture) | 1 | |
| HMElec-5L | Gastronomy (Food and Culture) Lab | 2 | |
| VI. Practicum/Work Integrated Learning | | | 18 |
| HM-PRC6-A | Practicum I (600hrs) | 6 | |
| HM-PRC6-B | Practicum II (600hrs) | 6 | |
| HM-RESA | Research in Hospitality I | 3 | |
| HM-RESB | Research in Hospitality II | 3 | |
| VII. Physical Education Courses | | | 8 |
| PE002-18 | Physical Fitness and Related Activities | 2 | |
| PE022-18 | Rhythmic Activities | 2 | |
| PE032-18 | Individual/Dual Sports | 2 | |
| PE042-18 | Team Sports | 2 | |
| VIII. National Service Training Program | | | 6 |
| NSTP1-18 | National Service Training Program 1 | 3 | |
| NSTP2-18 | National Service Training Program 2 | 3 | |

TOTAL UNITS 171

BACHELOR OF SCIENCE IN TOURISM MANAGEMENT

GENERAL SUMMARY OF COURSES

I. General Education Courses

| | | |
|-----------------------------------|---|-----------|
| A. Core Courses | | 36 |
| GEC003 | Understanding the Self | 3 |
| GEC013 | Science, Technology, and Society | 3 |
| GEC023 | Mga Babasahin Hingil sa Kasaysayan ng Pilipinas | 3 |
| GEC033 | Mathematics in the Modern World | 3 |
| GEC043 | The Contemporary World | 3 |
| GEC053 | Art Appreciation | 3 |
| GEC063 | Purposive Communication | 3 |
| GEC073 | Ethics | 3 |
| FIL083 | Komunikasyon Sa Akademikong Filipino | 3 |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 |
| FIL113 | Panitikang Filipino | 3 |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 |
| A. Institutional Mandated Courses | | 15 |
| LQEC1133 | Letran Quality Enrichment Course 113 | 3 |
| LQEC1143 | Letran Quality Enrichment Course 114 | 3 |
| LQEC1153 | Letran Quality Enrichment Course 115 | 3 |
| LQEC1163 | Letran Quality Enrichment Course 116 | 3 |
| PDHI013 | Personality Development for Hospitality Industry | 3 |
| B. Religious Education Courses | | 7 |
| RELED051 | The Catholic Christian Faith | 1 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 |

II. Business and Management Education Courses

| | | |
|--------|--|---|
| BMC143 | Operation Management in Tourism and Hospitality Industry | 3 |
| BMC253 | Strategic Management and TQM in Tourism and Hospitality Industry | 3 |

III. Tourism and Hospitality Core

| | | |
|-------|---|---|
| TH003 | Macro Perspective of Tourism and Hospitality | 3 |
| TH013 | Micro Perspective of Tourism and Hospitality | 3 |
| TH023 | Professional Development and Applied Ethics | 3 |
| TH033 | Risk Management as Applied to Safety, Security, and Sanitation | 3 |
| TH053 | Quality Service Management in Tourism and Hospitality Industry | 3 |
| TH073 | Multicultural Diversity in Workplace for the Tourism Professional | 3 |
| TH083 | Philippine Culture and Tourism Geography | 3 |
| TH093 | Legal Aspects in Tourism and Hospitality | 3 |
| TH103 | Entrepreneurship in Tourism and Hospitality | 3 |
| TH143 | Tourism and Hospitality Marketing | 3 |

IV. Tourism Professional Courses

| | | |
|--------|---|---|
| FL073 | Foreign Language I | 3 |
| FL083 | Foreign Language II | 3 |
| FL093 | Foreign Language III | 3 |
| TM083F | Global Culture and Tourism Geography | 3 |
| TM123 | Tour and Travel Management | 3 |
| TM132 | Applied Business Tools and Technologies for Tourism | 2 |
| TM131L | Applied Business Tools and Technologies for Tourism Lab | 1 |
| TM163B | Transportation Management | 3 |
| TM172 | Introduction to Meeting Incentives Conferences and Events Management (MICE) | 2 |
| TM171L | Introduction to Meeting Incentives Conferences and Events Management (MICE) Lab | 1 |
| TM183B | Tourism Research, Methods, and Techniques | 3 |
| TM203 | Sustainable Tourism | 3 |
| TM263 | Tourism Policy Planning and Development | 3 |

V. Professional Elective Courses

| | | |
|-----------|---|---|
| TMElec-1 | Philippine Gastronomical Tourism | 1 |
| TMElec-1L | Philippine Gastronomical Tourism Lab | 2 |
| TMElec-2 | Agri-Tourism | 3 |
| TMElec-3 | Cruise Tourism | 3 |
| TMElec-4 | Tour Guiding | 3 |
| TMElec-5 | Heritage Tourism | 3 |
| TMElec-6 | Accommodation Operations and Management | 3 |
| TMElec-7 | Recreational and Leisure Management | 3 |

| | | | |
|--|---|--------------------|------------------|
| VI. Practicum/Work Integrated Learning | | | <u>13</u> |
| TM-PRC7 | Practicum (700hrs) | 7 | |
| TM-RP1 | Research Project I | 3 | |
| TM-RP2 | Research Project II | 3 | |
| VII. Physical Education Courses | | | <u>8</u> |
| PE002-18 | Physical Fitness and Related Activities | 2 | |
| PE022-18 | Rhythmic Activities | 2 | |
| PE032-18 | Individual/Dual Sports | 2 | |
| PE042-18 | Team Sports | 2 | |
| VIII. National Service Training Program | | | <u>6</u> |
| NSTP1-18 | National Service Training Program 1 | 3 | |
| NSTP2-18 | National Service Training Program 2 | 3 | |
| | | TOTAL UNITS | 175 |

DESCRIPTION OF COURSES

I. GENERAL EDUCATION COURSE

A. CORE COURSES

GEC003 - Understanding the Self

3 units

The course discusses the nature of identity, its factors and forces that affect the development and maintenance of personal identity. It is intended to facilitate the exploration of the issues and concerns regarding self and identity to arrive at a better understanding of one's self. It strives to meet this goal by stressing the integration of the personal with the academic — contextualizing matters discussed in the classroom and in the everyday experiences of students — making for better learning, generating a new appreciation for the learning process, and developing a more critical and reflective attitude while enabling them to manage and improve their selves to attain a better quality of life.

This also includes mandatory topics on Family Planning and Population Education. *Pre-req: None; Co-req: None*

GEC013 - Science, Technology, and Society

3 units

The course deals with interactions between science and technology and social cultural, political, and economic contexts, which shape and are shaped by them.

The interdisciplinary course engages students to confront the realities brought about by science and technology in society. Such realities pervade the personal, the public, and the global aspects of our living and are integral to human development. Scientific knowledge and technological development happen in the context of society with all its socio-political, cultural, economic, and philosophical underpinnings at play. This course seeks to instill reflective knowledge in the students that they are able to live the good life and display ethical decision making in the face of scientific and technological advancement.

This also includes discussion of climate change and environmental awareness as well as the implementation of the different environmental protection laws. *Pre-req: None; Co-req: None*

GEC023 - Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas

3 units

Ang kursong ito ay tumatalakay sa mga piling primaryang sanggunian ukol sa iba't ibang yugto ng kasaysayan ng Pilipinas, pagsusuri at interpretasyon. Isasama din ang pagtalakay sa konstitusyon ng Pilipinas simula sa taong 1899 hanggang sa taong 1987. Ganun din ang pagtalakay sa repormang agraryo. Gayundin ang pagtalakay sa pagbubuwis bilang instrumento ng pamahalaan. Ito ay may kaugnayan sa tibay ng pagbubuwis bilang isa sa tatlong kapangyarihan ng pamahalaan na nakasaad sa Saligang Batas taong 1987. *Pre-req: None; Co-req: None*

GEC033 - Mathematics in the Modern World

3 units

The course discusses the nature of Mathematics, appreciation of its practical, intellectual, and aesthetic dimensions, and application of mathematical tools in daily life. *Pre-req: None; Co-req: None*

GEC043 - The Contemporary World

3 units

The course discusses globalization and its impact on individuals, communities and nations, challenges and responses. It introduces students to the contemporary world by examining the multifaceted phenomenon of globalization. Using the various disciplines of the social sciences, it examines the economic, social, political, technological, and other transformations that have created an increasing awareness of the interconnectedness of people and places around the globe. It provides an overview of the various debates in global governance, development, and sustainability. Beyond exposing the student to the world outside the Philippines, it seeks to inculcate a sense of global citizenship and global ethical responsibility.

This also includes mandatory topics on population education in the context of population and demography. *Pre-req: None; Co-req: None*

GEC053 - Art Appreciation

3 units

The course discusses the nature, function and appreciation of the arts in contemporary society. It intends to develop students' ability to appreciate, analyze, and critique works of art. Through interdisciplinary and multimodal approaches, this course equips students with a broad knowledge of the practical, historical, philosophical, and social relevance of the arts. This will hone their ability to articulate their understanding of the arts. It will also develop students' competency in researching and curating arts as well as conceptualizing, mounting, and evaluating art productions. The course aims to develop students' genuine appreciation for Philippine arts by providing them opportunities to explore the diversity and richness and their rootedness in Filipino culture. *Pre-req: None; Co-req: None*

GEC063 - Purposive Communication

3 units

The course discusses writing, speaking and presenting to different audiences and for various purposes. It develops students' communicative competence and enhances their cultural and intercultural awareness through multimodal tasks that provide them opportunities for communicating effectively and appropriately to a multicultural audience in a local or global context. It equips

students with tools for critical evaluation of a variety of texts and focuses on the power of language and the impact of images to emphasize the importance of conveying messages responsibly. *Pre-req: None; Co-req: None*

GEC073 – Ethics

3 units

Ethics deals with principles of ethical behavior in modern society at the level of the person, society, and interaction with the environment and other shared resources. It introduces ethics from the lenses of general principles of ethics, laws, and morals.

It also reviews the foundations and fundamentals of Christian morality. The major part of the course discusses the special questions in Christian ethics with a special focus on the contemporary moral and social problems in the light of the teaching of the Church. The fundamental aim of this course is to guide the students to a Christian discernment and moral stand.

It also includes mandatory topics on the ethics of taxation, the obligation of citizens to pay taxes, as well as the state's duties to spread and utilize taxes properly. *Pre-req: None; Co-req: None*

RZL023 - Buhay at Mga Akda ni Rizal

3 units

Ito'y isang pag-aaral sa buhay at gawa ni Gat. Jose Rizal at ang kaugnayan at kahalagahan sa nilalaman ng pangkasaysayang pagsulong ng lipunang Pilipino. Gamit ang istratohiyang "Dambana" kung saan ang mag-aaral ay maglalaan ng panahon sa Bahay-Rizal sa Calamba, ang mag-aaral ay magiging kabahagi ng Rizal Shrine staff sa edukasyong pangkasaysayan ng mga panauhin sa Bahay-Rizal. *Pre-req: None; Co-req: None*

B. FILIPINO COURSES

FIL083 - Komunikasyon sa Akademikong Pilipino

3 units

Ang kursong ito ay isang metalingwistik na pag-aaral ng wikang Filipino. Nakatuon ito sa estruktura, gamit katangian at kahalagahan ng wikang Filipino sa akademikong larangan. Sa lapit multidisiplinaryo at paraang interaktibo, inaasahang matutukoy at matatalakay ang mga pangunahing kaalaman sa wikang ito. Malilintang dito ang mga kasanayan sa paggamit ng wikang Filipino tungo sa lalong mataas na komunikasyon at sa kritikal na pagdidiskurso. *Pre-req: None; Co-req: None*

FIL093 - Pagbasa at Pagsulat Tungo sa Pananaliksik

3 units

Tatalakayin sa kursong ito ang higit na pagpapalawak ng kaalaman at lalo pang pagpapataas ng antas ng kasanayan sa kritikal na pagbasa at lohikal na pagsulat tungo sa pagsasagawa ng pananaliksik. *Pre-req: FIL083; Co-req: None*

FIL113 - Panitikang Filipino

3 units

Ang kursong ito ay pag-aaral sa iba't ibang anyo ng panitikan/ literatura ng Pilipinas sa pamamagitan ng pagbasa sa ilang tekstong pampanitikan na hango sa iba't ibang rehiyon ng Pilipinas, tatalakayin din ang mahahalagang kaganapan sa iba't ibang panahon ng kasaysayan ng panitikan sa sambayanang Pilipino. *Pre-req: FIL093; Co-req: None*

C. NATURAL SCIENCES

CHEM023 - College Chemistry

3 units

This course introduces the students to the basic principles in chemistry, and the application of these principles to man and society. The course covers the topics on atomic structure and chemical bond formation, the details of orbital description, oxidation-reductions, the gas laws, the chemical reactions, and basic introduction of simple organic compounds. *Pre-req: None; Co-req: Chem022L*

CHEM022L - College Chemistry Lab

2 units

This laboratory course accompanies CHEM023 (College Chemistry). This course will provide the students practical insights of the concepts learned from their lecture through laboratory experiments and laboratory exercises. *Pre-req: None; Co-req: Chem023*

NSCI023 - Environmental Science

3 units

The course offers the foundation for students to become aware of the current issues about pollution and destruction of Planet Earth. It focuses on the ecosystem structure, ecosystem destruction and causes of pollution. It emphasizes species biodiversity and extinction and management approaches to protect the aquatic and terrestrial environment. The theories learned will be used to develop a sustainable management plan to the 2 ecosystems mentioned. *Pre-req: NSCI093, NSCI092L; Co-req: None*

NSCI063 - Neuro-Anatomy

3 units

This course provides the students with a basic understanding of the structure and morphological function of the mammalian nervous system (nervous tissue, central nervous system, peripheral nervous system and autonomic nervous system) and show usefulness in dealing with psychological problems. The anatomy of the special sense organs (sight, hearing, smell and taste) and human genetics are also discussed. *Pre-req: NSCI093, NSCI092L; Co-req: None*

NSCI093 - College Zoology**3 units**

The course introduces the students into the realm of animal world. It embraces the classification of animals, the general principles of animal biology, and the fundamentals of Microscopy and Dissection. *Pre-req: Phys022L, Phys023; Co-req: NSci092L*

NSCI092L - College Zoology Lab**2 units**

This laboratory course accompanies NSCI093 (College Zoology). This course will provide the students practical insights of the concepts learned from their lecture through laboratory experiments and laboratory exercises. *Pre-req: Phys022L, Phys023; Co-req: NSci093*

PHYS023 - College Physics**3 units**

This course covers the topics on mechanics, molecular physics and heat. It embraces the study of vectors; force and motion; work, power and energy; momentum; uniform circular motion, vibratory motion; fluids at rest and in motion; properties of gases, molecular theory of matter, heat quantities and heat transfer; thermal expansion, and thermodynamics principles. *Pre-req: Chem022L, Chem023; Co-req: Phys022L*

PHYS022L - Physics Lab**2 units**

This laboratory course accompanies PHYS023 (College Physics). This course will provide the students practical insights of the concepts learned from their lecture through laboratory experiments and laboratory exercises. *Pre-req: Chem022L, Chem023; Co-req: Phys023*

D. RELIGIOUS EDUCATION COURSES**RELED051 - The Catholic Christian Faith****3 units**

This course presents the overview of the Letran Calamba Religious Education Program and the basics of our Christian Faith. The greater part of the course deals with the study of God's action in salvation history that began in creation (Old Testament), highlighted at the coming of Jesus Christ, and culminates in the consummation of God's creation unto Himself. *Pre-req: None; Co-req: None*

RELED063 - Contemporary Issues in Christian Marriage**3 units**

The emphasis of the course is on marriage and family, presented as a vocation and a sacrament. The study prepares the students for the reception of the sacrament and achievement of better outlook on the realities and complexities of the married state and family life. *Pre-req: RELED051; Co-req: None*

RELED073 - Contemporary Issues About Church and Human Society with Immersion**3 units**

This course studies the seven themes of the social teachings of the Catholic Church. It also tackles contemporary social issues, which hamper the development of our country. An integral part of the course is Makipamuhay, a learning strategy that allows students to experience direct contact with the oppressed in society specifically the rural poor and leads them to develop personal as well as communal witnessing to authentic Christian faith. *Pre-req: RELED051; Co-req: None*

E. PHYSICAL EDUCATION COURSES**PE002-18 - Physical Fitness and Related Activities****2 units**

This course deals with the physical fitness testing, gymnastics activities and group games. Health and fitness related activities, motor skill learning and enhancement of physical ability are emphasized. *Pre-req: None; Co-req: None*

PE022-18 - Rhythmic Activities**2 units**

This course aims to let the students explore varied forms of dances to serve as a vehicle towards socio-cultural awareness. *Pre-req: PE002-18; Co-req: None*

PE032-18 - Individual/Dual Sports**2 units**

This course focuses on indoor and outdoor games. *Pre-req: PE002-18; Co-req: None*

PE042-18 - Team Sports**2 units**

This course aims to immerse students to the theoretical and actual performance of selected team sports. Specifically, the focus is on the basic and lead-up games, on officiating and management of sports. *Pre-req: PE002-18; Co-req: None*

F. NATIONAL SERVICE TRAINING PROGRAM**NSTP1-18 - National Service Training Program 1****3 units**

The National Service Training Program 1 is a curricular offering consisting of lectures and trainings on citizenship, values education, environment and drug education, disaster management, transformational leadership, dimensions of development and literacy and numeracy skills aimed to empower the youth as potential community leaders toward national development. *Pre-req: None; Co-req: None*

NSTP2-18 - National Service Training Program 2**3 units**

The National Service Training Program 2 is a sequel to NSTP1. This course is designed to equip the students with the fundamentals of project identifications, planning implementation and evaluation which include but is not limited to lecture and training on social mobilization, community development, and community service. The students are required to undergo the process of community immersion in pursuit of applying the concepts learned in contributing to the general welfare of in the Colegio's partner communities.
Pre-req: NSTP1-18; Co-req: None

II. EDUCATION, ARTS, AND SCIENCES PROGRAM**A. PROFESSIONAL EDUCATION COURSES****EDUC063A - Assessment in Learning 1****3 units**

This is a course that focuses on principles, development and utilization of conventional assessment tools to improve the teaching-learning process. It emphasizes on the use of assessment of, as and for measuring knowledge, comprehension and other thinking skills in the cognitive, psychomotor or affective domains. It allows students to go through the standard steps in test construction and development and the application in grading systems. *Pre-req: EDUC263; Co-req: EDU273, EDUC293*

EDUC063B - Assessment in Learning 2**3 units**

This is a course that focuses on the principles, development and utilization of alternative forms of assessment in measuring authentic learning. It emphasizes on how to assess process-and product-oriented learning outcomes as well as affective learning. Students will experience how to develop rubrics and other assessment tools performance-based and product-based assessment.
Pre-req: EDUC063A; Co-req: EDUC313, EDUC233

EDUC233 - The Teaching Profession**3 units**

This course deals with the teacher as a person and as a professional within the context of national and global teacher's standards and education philosophies. It will include professional ethics, core values, and awareness of professional rights, privileges and responsibilities as well as the teacher's roles in the society as transformative agent of change. *Pre-req: EDUC273; Co-req: EDUC063B, EDUC313*

EDUC253 - The Child and Adolescent Learners and Learning Principles**3 units**

The course focuses on child and adolescent development with emphasis on current research and theory on biological, linguistic, cognitive, social and emotional dimensions of development. Further, this includes factors that affect the progress of development of the learners and shall include appropriate pedagogical principles applicable for each development level. *Pre-req: None; Co-req: EDUC263, EDUC283*

EDUC263 - Building and Enhancing New Literacies Across the Curriculum**3units**

This course introduces the concepts of new literacies in the 21st century as an evolving social phenomena and shared cultural practices across learning areas. The 21st century literacies shall include (a) globalization and multi-cultural literacy, (b) social literacy, (c) media literacy, (d) financial literacy, (e) cyber literacy/digital literacy, (f) eco-literacy and (g) arts and creativity literacy. Field based-interdisciplinary explorations and other teaching strategies shall be used in this course. *Pre-req: None; Co-req: EDUC253, EDUC283*

EDUC273 - Technology for Teaching and Learning 1**3 units**

This is an introductory course that explores basic knowledge and skills and values in the use of technology for teaching and learning. It includes ICT policies and safety issues, media and technology in various content areas, learning theories and principles in the use and design of learning lessons, teaching- learning experiences and assessment tasks that utilize appropriate traditional and innovative technologies with social, ethical and legal responsibility in the use of technology tools and resources. *Pre-req: EDUC263; Co-req: EDUC293, EDUC063A*

EDUC283 - Facilitating Learner Centered Teaching**3 units**

This course explores the fundamental principles, processes and practices anchored on learner centeredness and other educational psychologies as these apply to facilitate various teaching-learning delivery modes to enhance learning. *Pre-req: None; Co-req: EDUC253, EDUC263*

EDUC293 - Foundation of Special and Inclusive Education**3 units**

This course shall deal with philosophies, theories and legal bases of special needs and inclusive education, typical and atypical development of children, learning characteristics of students with special educational needs (gifted and talented, learners with difficulty in seeing, learners with difficulty hearing, learners with difficulty communicating, learners with difficulty walking/moving, learners with difficulty remembering and focusing, learner with difficulty with self-care)and strategies in teaching and managing these learners in the regular class. *Pre-req: EDUC263, EDUC283; Co-req: EDUC273, EDUC063A*

EDUC303 - The Teacher and the School Curriculum**3 units**

This course includes the fundamental concepts and principles in curriculum and curriculum development as a foundation to engage prospective teachers as curricularists. The more active the role of the teacher in planning, implementing and evaluating school-curriculum as well as in managing school curriculum change vis-à-vis various context of teaching-learning and curricular reforms shall be given emphasis. *Pre-req: EDUC273; Co-req: EDUC063B, EDUC313*

EDUC313 - The Teacher and the Community, School Culture and Organizational Leadership**3 units**

This course focuses on society as a context upon which the schools have been established. Educational philosophies that are related to the society as a foundation of schools and schooling shall be emphasized. Further, principles and theories on school culture, and organizational leadership shall be included to prepare prospective teachers to become school leaders and managers. *Pre-req: EDUC273; Co-req: EDUC233, EDUC063B, EDUC303*

EDUC-RESA - Educational Research I**3 units**

The course is a seminar-workshop type that deals with the rudiments of academic/thesis writing. The end product is a thesis proposal which would undergo defense by panel of experts in Education. *Pre-req: EDUC303; Co-req: None*

EDUC-RESB - Educational Research II**3 units**

The course is the continuation of EDUC-RESA (Educational Research I). The end product is a full-blown thesis that should undergo final defense by panel of experts in Education focusing on the validity and reliability of the findings of the study. *Pre-req: EDUC-RESA; Co-req: None*

FS1 - Observation of Teaching Learning in Actual School Environment**3 units**

This is the first experiential course which will immerse a future teacher to actual classroom situation and learning environment where direct observation of teaching learning episodes that focuses on the application of educational theories learned in content and pedagogy courses will be made. Observations of the learner's behavior, motivation, strategies of teaching, classroom management, and assessment in learning among others shall be given emphasis. A portfolio shall be required in the course. *Pre-req: EDUC-ST006, EDUC 063B; Co-req: FS2*

FS2 - Participation and Teaching Assistantship**3 units**

This course is a continuation of FS1 (Observation of Teaching Learning in Actual School Environment). It is school based and allows a re-service student to participate and assist in a limited actual teaching- learning activities that relate to assessment of learning, preparation of instructional materials, preparation of the bulletin boards, and other routines in the classroom. A portfolio which will contain sample lesson or learning plans and demonstration teaching of at least one subject content area will be required. *Pre-req: EDUC-ST006, EDUC 063B; Co-req: FS1*

EDUC-PRC - Practice Teaching (Off-campus/600 hrs)**6 units**

The course is the culminating phase of the teacher education degree program. It is a one semester full time teaching internship in basic education schools outside the Colegio (off-campus) using a clinical approach under the mentorship of a cooperating teacher. A teaching portfolio shall be required at the end of the course. *Pre-req: FS1, FS2; Co-req: None*

B. ELEMENTARY EDUCATION PROFESSIONAL COURSES**ELEM013 - Teaching Biology and Chemistry in the Elementary Grades****3 units**

The course includes understanding of spiraling basic science concepts and application of science inquiry in Chemistry and Biology and the use of teaching strategies in the elementary science, development of instructional materials and assessment. Content topics in Chemistry include Properties and Structure of Matter and Changes that Matter Undergo. In Biology content topics includes Parts and Functions of Animals and Plants, Heredity: Inheritance and Variation, Biodiversity and Evolution and Ecosystems. *Pre-req: None; Co-req: None*

ELEM023 - Teaching Philippine History and Government in the Elementary Grades**3 units**

This course emphasizes the contents of the Philippine History and Government that are necessary in teaching at the elementary level. Further, appropriate teaching strategies and assessment methods shall be included to prepare students to become elementary grades teachers. *Pre-req: ELEM013; Co-req: None*

ELEM033 - Teaching Math in the Elementary Grades**3 units**

The course equips prospective teachers with pedagogical content knowledge for the teaching of basic contents in mathematics in the primary level. Understanding of key concepts and skills of whole numbers up to 10,000, fractions, measurement, simple geometric figures, pre-algebra concepts and data representation and analysis are applied using appropriate technology. Teaching strategies include problem solving, critical thinking, differentiated instruction, inquiry-based learning with the use of manipulative based on cultural context will be emphasized. *Pre-req: ELEM013, ELEM023; Co-req: None*

- ELEM043 - Good Manners and Right Conduct (Edukasyon sa Pagpapakatao)** **3 units**
Anchored on the essential component of personhood that deals with intra/interpersonal relationships which allow harmony with oneself and the environment; this course will highlight the fundamental rules of good manners and appropriate conduct or behavior of each learner which are necessary of the formation of character that embraces the core values of maka-Dios, Maka-Tao, Maka-Bansa and Maka- kalikasan. *Pre-req: None; Co-req: None*
- ELEM053 - Teaching Language Arts in the Elementary Grades** **3 units**
The course will emphasize English as a second language with main focus on language teaching methodologies to improve knowledge on the structure and fluency in the English language through listening, reading, writing, speaking, and viewing. *Pre-req: ELEM033; Co-req: ELEM063*
- ELEM063 - Pagtuturo ng Estruktura at Gamit ng Wikang Filipino sa Elementarya** **3 units**
Pagsasanay ng paggamit ng estruktura at gamit ng Wikang Filipino sa pagtuturo sa elementarya. Sumasaklaw sa dekriptibong pag-aaral ng wikang Filipino sa lebel ng polohiya, morpolohiya, semantiks at sintaks. *Pre-req: ELEM033; Co-req: ELEM053*
- ELEM073 - Teaching Music in the Elementary Grades** **3 units**
The course deals with the educational foundation of Music as it apply to teaching and learning in the elementary grades. Various teaching strategies and assessment appropriate for each area shall be given emphasis in the course. *Pre-req: None; Co-req: ELEM083*
- ELEM083 - Edukasyong Pantahanan at Pangkabuhayan** **3 units**
This course shall include pedagogical content, knowledge and skills in technology and livelihood necessary in teaching and learning in the elementary level. Selected topics in home economics, industrial arts, technology and livelihood education and entrepreneurship shall form a major part of the course. Experiential learning approach shall be the focus of the course. *Pre-req: None; Co-req: ELEM073*
- ELEM093 -Teaching Arts in the Elementary Grades** **3 units**
This course deals with the educational foundations of Arts as these apply to teaching and learning in the elementary grades. Various teaching strategies and assessment appropriate for each area shall be given emphasis in the course. *Pre-req: ELEM073; Co-req: ELEM133*
- ELEM103 - Pagtuturo ng Panitikan ng Pilipinas sa Elementarya** **3 units**
Paggamit ng ibat-ibang anyo ng literatura ng Pilipinas galing sa sarili at ibat-ibang rehiyon sa pagtuturo, produksyon at (assessment) na angkop sa elementary. *Pre-req: ELEM063; Co-req: ELEM113, ELEM123*
- ELEM113 - Teaching Physics, Earth and Space Science in the Elementary Grades** **3 units**
This course includes understanding of spiraling basic science concepts and application of science inquiry in Physics and Earth and Space, strategies in teaching elementary science, development of instructional materials and assessment. Content topics in Physics include Force and Motion, and Energy while Earth and Space Science include Geology, Meteorology, and Astronomy. *Pre-req: ELEM013; Co-req: ELEM103, ELEM123*
- ELEM123 - Teaching Culture and Geography in the Elementary Grades** **3 units**
The course aims to equip the students a strong background in the local history and culture. This background serves as an avenue for further inquiry of the available resources in the community for the localization and contextualization of teaching elementary subjects. Areas to be studied include natural heritage of the locality, tangible and intangible culture that are of great significance to the socio-economic and political activities of the people in the place. In the end they are expected to come up with the profiling of available resources in the community. *Pre-req: ELEM023; Co-req: ELEM103, ELEM113*
- ELEM133 - Technology for Teaching and Learning in the Elementary Grades** **3 units**
This course is designed for prospective teachers to develop and use digital and non-digital teaching-learning resources using technology tools appropriate in various subject areas in the elementary level. Further, the course will provide opportunities for students to use technology tools to develop project-based collaborative activities and share resources among communities of practice. *Pre-req: None; Co-req: ELEM093*
- ELEM143 -Teaching English in the Elementary Grade Through Literature** **3 units**
This course will focus on Children's Literature in English to include riddles, poetry, stories, drama and other written works as an avenue to teach English language. Teaching methodologies in the use of literature shall be emphasized. *Pre-req: ELEM053; Co-req: ELEM153, ELEM163*
- ELEM 153 - Teaching Math in the Intermediate Grades** **3 units**
As a preparation for teaching in the intermediate grades, this course emphasizes the integration of technological pedagogical content knowledge that includes topics on rational numbers, measurement, geometric figures, pre-algebra concepts, application of simple probability and data analysis. This course is capped with microteaching that utilizes appropriate teaching strategies for the

development of critical and problem solving, reasoning, communicating, making corrections, representations and decisions in real life situations. *Pre-req: ELEM033; Co-req: ELEM143, ELEM163*

ELEM163 - Content and Pedagogy for the Mother Tongue

3 units

This course includes both the content and the pedagogy of the mother tongue. The subject matter content includes the structure of the mother tongue as a language, literature in the Mother Tongue, methods and techniques of teaching in the language development of instructional materials and assessment. *Pre-req: ELEM103; Co-req: ELEM143, ELEM153*

ELEM173 - Teaching PE and Health in the Elementary Grades

3 units

This course deals with the educational foundations of Physical Education as these apply to teaching and learning in the elementary grades. Various teaching strategies and assessment appropriate for each area shall be given emphasis in the course. *Pre-req: ELEM073, ELEM093; Co-req: None*

ELEM183 - Edukasyong Pantahanan at Pangkabuhayan with Entrepreneurship

3 units

This course shall include pedagogical content, knowledge and skills in technology and livelihood education necessary in teaching and learning in the elementary level. Selected topics in agriculture arts, fisheries, arts and livelihood education and entrepreneurship shall form the major part of the course. Experiential learning approach shall be the focus of the course. *Pre-req: ELEM083; Co-req: None*

ELEM193 - Research in Education

3 units

This is a practicum research course that will provide prospective elementary teachers an avenue to conduct applied or action research that will provide empirical bases to improve teaching and learning. *Pre-req: ELEM043, ELEM133; Co-req: ELEM-ELEC1*

ELEM-ELEC1 - Teaching Multi -Grade Classes

3 units

This is a course in implementation of multi-grade course that deals with the theories, principle and concepts of multi-grade learners and classes. It includes pedagogical approaches and contextualized learning environments for the different grade and age levels are grouped for instruction in different school situation. *Pre-req: None; Co-req: ELEM193*

C. SECONDARY EDUCATION MAJOR IN ENGLISH PROFESSIONAL COURSES

ENED023B - Introduction to Linguistics

3 units

The course provides an overview of linguistics as a discipline, its development, levels of structure, and its significance to English language teaching. *Pre-req: None; Co-req: LIT083*

ENED053B - Campus Journalism

3 units

The course develops skills and applies principles and strategies in writing for traditional and new media. *Pre-req: ENED253; Co-req: ENED263*

ENED223 - Language, Culture, and Society

3 units

The course explores the inextricable link between and among language, culture, and society and its implications to the development of English as a global language and the ways by which it is learned and taught. *Pre-req: ENED023B; Co-req: ENED233*

ENED233 - Structures of English

3 units

The course develops the ability to use phonological, lexical, syntactic, and semantic structures of English with ease and explain the form, meaning, and use of their elements. *Pre-req: None; Co-req: ENED223, ENED243*

ENED243 - Principles and Theories of Language Acquisition and Learning

3 units

The course examines principles, factors, and contexts of language acquisition and learning based on theories and research findings. *Pre-req: None; Co-req: ENED233, ENED253*

ENED253 - Language Programs and Policies in Multilingual Societies

3 units

The course provides a survey of local and international basic education language programs and policies that account for issues and considerations relevant to the engagement of teachers in school settings. *Pre-req: None; Co-req: EDUC243, LIT093*

ENED263 - Language Learning Materials Development

3 units

The course equips the students with skills to develop language learning materials suitable to the teaching and learning of a specific language objective. It also develops the application of the principles, methods, and approaches of translation and adaptation of various texts. *Pre-req: None; Co-req: ENED053B, ENED273*

ENED273 - Teaching and Assessment of Literature Studies

3 units

The course exposes the basic pedagogical theories, teaching strategies, philosophical influences and movements in literature as they affect teaching. It also aims to develop the ability of the students to construct both discrete and integrative listening, speaking,

reading, writing, and literature tests to assess the language proficiency and achievement and literary competence. *Pre-req: None; Co-req: GEC063, ENED263, ENED-ELEC1*

ENED283 - Teaching and Assessment of the Macroskills

3 units

The course teaches the macroskills taking into account their nature, theoretical underpinnings, the competencies to be developed and productive teaching-learning strategies. It also focuses on the development and utilization of assessment tools for macroskills. *Pre-req: ENED273; Co-req: ENED293*

ENED293 - Teaching and Assessment of Grammar

3 units

The course engages learners in understanding the distinctions between and among four types of grammar: functional, descriptive, prescriptive, and pedagogic. Aside from the emphasis on how teaching and assessment vary considering the four types, the course also provides opportunities to discover the role of grammar in achieving communicative competence. *Pre-req: None; Co-req: ENED283, ENED303*

ENED303 - Language Education Research

3 units

The course develops skills in applying principles and approaches in research to find answers to questions in language learning and teaching. *Pre-req: EDUC-RESA; Co-req: ENED293, ENED313*

ENED313 - Speech and Theater Art

3 units

The course examines the process of oral communications and the various forms of speech arts from public speaking and group discussions to debate, oral interpretation and dramatics. *Pre-req: None; Co-req: ENED303, ENED323*

ENED323 - Technical Writing

3 units

The course develops technical and scientific writing skills across disciplines. *Pre-req: None; Co-req: ENED313, ENED333*

ENED333 - Technology for Teaching and Learning 2 (Technology in Language Education)

3 units

The course focuses on the application, design, production, utilization, and evaluation of Information and Communications Technology (ICT) materials for teaching and learning in Secondary Language (English and Filipino) Education Programs. The major requirement for this course is an ICT-integrated and Project-based Learning Plan aligned to the K to 12 curriculum. All the learning activities and course requirements will revolve around the student-teacher developed Learning Plan. *Pre-req: None; Co-req: ENED323, ENED-ELEC2*

LIT063 - Mythology and Folklore

3 units

The course explores mythology and folklore from different countries to gain insights into people's origin, desires, fears, instincts, and needs. *Pre-req: LIT103; Co-req: None*

LIT083 - Survey of Afro-Asian Literature

3 units

The course surveys selected literary texts from Asia and Africa, particularly India, China, Japan, the countries in the southeast region in Asia, and the African nations south of the Sahara along socio-historical, philosophical, and literary underpinnings. *Pre-req: LIT063; Co-req: ENED023B*

LIT093 - Survey of English and American Literature

3 units

The course engages students in a historical survey of selected literary works produced by understanding English and American literatures from its beginnings to the 21st century. *Pre-req: LIT083; Co-req: ENED253*

LIT103 - Survey of Philippine Literature in English

3 units

The course enables students to analyze the growth and development of Philippine Literature in English from 1900 to the present along socio-historical events as shown in representative works. *Pre-req: None; Co-req: LIT113*

LIT113 - Children and Adolescent Literature

3 units

The course provides a survey of the categories and types of the world's literature for children and adolescents. *Pre-req: None; Co-req: LIT103*

LIT123 - Contemporary, Popular, and Emergent Literature

3 units

The course focuses on critical issues in contemporary and popular literature and genres. *Pre-req: None; Co-req: GEC063, ENED-ELEC1, LIT213*

LIT213 - Literary Criticism

3 units

The course provides students with opportunities to study the basic approaches to literary theory and criticism and their application to selected literary works. *Pre-req: None; Co-req: LIT123*

ENED-ELEC1 - English for Specific Purposes**3 units**

The course aims to sharpen the language skills of the students through the use of discipline-based materials for development of academic proficiency. *Pre-req: None; Co-req: ENED273, LIT123*

ENED-ELEC2 - Stylistic and Discourse Analysis**3 units**

The course develops the students' ability to use the conceptual frameworks and schemes of linguistics in literature in understanding literary language. It also aims to develop learners' critical thinking about how discourses are used in context and how they reflect and shape the world. The course draws upon students' prior understanding of basic linguistic concepts and provides learners with analytical tools and strategies to explore features of written and spoken texts. Students have the opportunity to apply theories and their analytical skills in a wide range of contexts and text types. *Pre-req: ENED-ELEC1; Co-req: ENED333*

D. SECONDARY EDUCATION MAJOR IN MATHEMATICS PROFESSIONAL COURSES**MTED003 - History of Math****3 units**

The course presents the humanistic aspects of mathematics which provides the historical context and timeline that led to the present understanding and applications of the different branches of mathematics. *Pre-req: None; Co-req: MTED013B*

MTED013B - Plane and Solid Geometry**3 units**

The course covers topics on Euclidean Geometry. The topics are discussed using both the deductive and inductive methods to conjecture definitions, corollaries, postulates and theorems on plane and solid geometry. *Pre-req: None; Co-req: MTED003*

MTED023B – Trigonometry**3 units**

The course introduces students to circular and trigonometric functions, trigonometric identities, and to the polar coordinate system. The students then apply concepts in these topics to applications in problem solving. *Pre-req: MTED013B; Co-req: None*

MTED033B - Mathematics of Investment**3 units**

The course introduces students with a basic understanding of the applications of mathematical concepts and skills in economics, business and accounting. It includes determining the time value of money using simple and compound interest and discounting, variation of annuities, amortization stocks and bonds, and sinking fund. *Pre-req: None; Co-req: MTED204, MTED073B*

MTED043D - Modern Geometry**3 units**

The course is an enrichment of the course on Euclidean Geometry. It discusses the properties and applications of other types of geometries such as the finite geometry, non-Euclidean geometry, and projective geometry. *Pre-req: MTED023B; Co-req: MTED173*

MTED073B - Linear Algebra**3 units**

The course provides a basic understanding of vector spaces, including the study of matrices, their properties and matrix operations. It also covers the application of matrices in systems of linear equations and linear transformations. *Pre-req: None; Co-req: MTED033B*

MTED133B - Number Theory**3 units**

The course is a study of the properties of numbers and their proofs. It presents the students with different methods of mathematical proving. It focuses on the discussion of the set of integers that including Unique Prime Factorization, Divisibility Rules, Euclidean Algorithm, Linear Diophantine Equations. *Pre-req: MTED073B; Co-req: MTED183*

MTED143B - Abstract Algebra**3 units**

The course is a study of basic algebraic structures such as groups, rings, integral domains and fields. It provides a basic understanding of relations focusing on isomorphism. It aims to enhance the student's skills in constructing mathematical proofs, and develop their symbolic thinking and appreciation of mathematical structures. *Pre-req: None; Co-req: MTED214, MTED223*

MTED173 - College and Advanced Algebra**3 units**

The course builds upon the students' knowledge on properties of the real number system, operations on different types of algebraic expressions, and the solution of various types of equations and inequalities. The course also covers the prerequisites to trigonometry and calculus, specifically transcendental and non-transcendental functions, including the characteristics of their graphs and applications. *Pre-req: None; Co-req: MTED043D*

MTED183 - Logic and Set Theory**3 units**

The course is a study of mathematical logic which covers topics such as propositions, logical operators, rules of replacement, rules of inference, algebra of logic and quantifiers. It also includes a discussion of elementary theory of sets such as fundamental concepts of sets, set theorems, and set operations. *Pre-req: None; Co-req: MTED133B, MTED193*

MTED193 - Elementary Statistics and Probability**3 units**

The course equips the students with basic statistical tools to understand various phenomena. The topics on mean, variance, sampling, and estimation eventually allow the students to be able to perform hypothesis testing on real-life problems from different

fields. The course includes applications and data analysis with computations carried out using SPSS. *Pre-req: None; Co-req: MTED183, MTED214*

MTED204 - Calculus 1 with Analytic Geometry

4 units

The course equips the students with knowledge and skills needed to be able to determine limits of functions, to differentiate, and to integrate algebraic, exponential, logarithmic, and trigonometric functions in one variable. It also includes exposure to more challenging problems covering continuity and areas of regions. *Pre-req: MTED173; Co-req: MTED033B*

MTED214 - Calculus 2

4 units

The course aims to further develop the students' understanding of differential and integral calculus. It covers the methods and techniques of integration, indeterminate forms, and improper integrals of algebraic and transcendental functions. *Pre-req: MTED204; Co-req: MTED143B, MTED193*

MTED223 - Advanced Statistics

3 units

The course deals with non-parametric statistics. It covers the topics on test of association such as Spearman Rho, Phi coefficient, Contingency coefficient, biserial and test of differences such as Mann-Whitney U, Wilcoxon. It includes applications and data analysis with computations carried out using SPSS. *Pre-req: None; Co-req: MTED143B*

MTED233 - Problem Solving, Mathematical Investigation, and Modelling

3 units

The course deepens and further enhances the students' understanding of real-life applications of mathematics through investigating, pattern finding, testing and justifying conjectures, and making generalizations. *Pre-req: MTED223; Co-req: MTED243*

MTED243 - Calculus 3

3 units

The course aims to provide the students with an understanding of the applications of differentiation and integration in sequences, infinite series, power series, as well as of multiple integration for functions in several variables. Moreover, students will be able to apply these concepts to problem solving. *Pre-req: MTED214; Co-req: MTED233, MTED253*

MTED253 - Principles and Strategies in Teaching Mathematics

3 units

The course deals with the applications of the principles, the strategies in teaching, and philosophical foundations of teaching mathematics. These are then applied in lesson planning and microteaching. *Pre-req: None; Co-req: MTED243, MTED263*

MTED263 - Research in Mathematics

3 units

The course aims to prepare prospective mathematics teachers to undertake an undergraduate research project. It gives teachers the opportunity to conduct researches that address problems, issues, and concerns in mathematics teaching and learning. It also showcases their research skills through the application of the mathematical content and processes they have learned previously. *Pre-req: None; Co-req: MTED253, MTED274*

MTED274 - Technology for Teaching and Learning 2 (Instrumentation and Technology in Mathematics)

4 units

The course will focus on the application, design, production, utilization, and evaluation of Information Communications Technology (ICT) materials for teaching and learning in Mathematics Education Programs. The major requirement for this course is an ICT-integrated and Project-based Learning Plan aligned to the K to 12 curriculum. All the learning activities and course requirements will revolve around the student-teacher developed Learning Plan. *Pre-req: None; Co-req: MTED263, MTED293*

MTED293 - Assessment and Evaluation in Mathematics

3 units

The course deals with traditional and authentic assessment methods for evaluating mathematics learning. It covers the purposes of instruction and assessment, the relationship of assessment to content and performance standards, and discussions on the issues and trends in assessment specifically in mathematics teaching. *Pre-req: None; Co-req: MTED274*

E. AB COMMUNICATION PROFESSIONAL COURSES

ABCOMM003 - Introduction to Communication Media

3 units

Overview of Communication as a discipline, as a field of study, and as a profession; the communication process and its elements, history, growth and development of communication media. *Pre-req: None; Co-req: None*

ABCOMM013 - Communication Theory

3 units

Theories, principles and concepts in communication; issues and perspectives in the study of communication. *Pre-req: ABCOMM003; Co-req: None*

ABCOMM023 - Communication Media Laws and Ethics

3 units

Principles underlying freedom of expression, information, and of the press; statutes, dealing with the communication media and their operations; case studies, issues and problems on regulatory and self-regulatory mechanisms including professional codes of ethics. *Pre-req: ABCOMM003; Co-req: None*

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|---|----------------|
| ABCOMM093 - Development Communication | 3 units |
| Concepts, theories, principles and practices of communication in development contexts. Includes case studies of development communication programs locally and internationally. <i>Pre-req: None; Co-req: None</i> | |
| ABCOMM122 - Introduction to Theater Arts | 2 units |
| Fundamentals of the art of drama onstage, with emphasis on acting, directing and production design. <i>Pre-req: ABCOMM223; Co-req: ABCOMM121L</i> | |
| ABCOMM121L - Introduction to Theater Arts Lab | 1 unit |
| The laboratory component of ABCOMM122 (Introduction to Theater Arts) where theatre production techniques are applied. A stage play is expected as an output. <i>Pre-req: ABCOMM223; Co-req: ABCOMM122</i> | |
| ABCOMM133 - Communication Research | 3 units |
| The communication research process: principles, methods and techniques in the conceptualization, design, implementation, analysis, interpretation and utilization of communication studies. <i>Pre-req: ABElec-1, ABElec-2; Co-req: None</i> | |
| ABCOMM143 - Communication Culture and Society | 3 units |
| Existing and emerging global and national communication media landscape. The role of communication and culture in society with emphasis on the issues in the Philippine setting, including rights and responsibilities of communicators. <i>Pre-req: ABCOMM223; Co-req: None</i> | |
| ABCOMM153 - Journalism Principles and Practices | 3 units |
| The scope and responsibilities of journalism work in a multimedia world, including an introduction to the basic skills required such as news writing, the interview and the feature writing. <i>Pre-req: ABCOMM003, ABCOMM013; Co-req: ABCOMM293</i> | |
| ABCOMM163 - Broadcasting Principles and Practices | 3 units |
| Principles and practices in the use and operations of radio and television as broadcast media including basic skills in writing for broadcast. <i>Pre-req: ABCOMM093; Co-req: None</i> | |
| ABCOMM 183 -Advertising Principles and Practices | 3 units |
| The role of advertising in a free market economy and commercial media system; theories on persuasion and advertising; and practical advertising principles and practices integrated in an advertising campaign plan. <i>Pre-req: ABCOMM003, ABCOMM013; Co-req: None</i> | |
| ABCOMM193 - Public Relation Principles and Practices | 3 units |
| Basic concepts, principles, and practices of public relations and its applications to education, government, business and industry and other institutions. <i>Pre-req: ABCOMM003, ABCOMM013, ABCOMM023; Co-req: None</i> | |
| ABCOMM203 - Knowledge Management | 3 units |
| Principles, processes, and strategies of identifying, capturing, analyzing, storing and sharing knowledge within an organization. These elements are facilitated by the use of ICT. <i>Pre-req: ABCOMM283; Co-req: None</i> | |
| ABCOMM223 - Communication Planning | 3 units |
| Principles and strategies on how to develop an evidenced-based and results- oriented communication campaign plan. It covers the planning process, elements of a communication plan, and measuring effects and impacts. The campaign may refer to public information and education, advocacy, social mobilization, and similar communication-related programs. <i>Pre-req: ABCOMM003; Co-req: None</i> | |
| ABCOMM263 - Communication Management | 3 units |
| Application of management theories, functions, principles, and strategies in communication organizations (including programs and projects). <i>Pre-req: ABCOMM003, ABCOMM013, ABCOMM193; Co-req: None</i> | |
| ABCOMM283 - Organizational Culture and Communication | 3 units |
| Communication processes in any type of organization to create a distinct organizational culture, achieve company's goals and objectives, and spur organizational productivity. Includes the relationship between communication and organizational effectiveness. <i>Pre-req: ABCOMM003, ABCOMM013; Co-req: None</i> | |
| ABCOMM293 - Digital Publishing | 3 units |
| Conceptualization, design and development of materials for digital production and reproduction. <i>Pre-req: ABCOMM003; Co- req: ABCOMM153</i> | |

- ABCOMM303 - Philippine Arts** **3 units**
 This subject creates student's appreciation for visual arts in the Philippines, from indigenous to contemporary visual arts. Students will learn how culture dictates architecture, paintings and performance arts. Students will be introduced to the works of well-respected Filipino artists in different medium of expressions. *Pre-req: None; Co-req: None*
- ABCOMM313 - Web Content Management** **3 units**
 Principles and practices in developing and managing online content for institutional visibility and impact beyond interface and navigation design. *Pre-req: ABCOMM223; Co-req: None*
- ABCOMM323 - Digital Imaging** **3 units**
 Principles, programs, and techniques in improving photos, managing colors and typography, as well as creating new images and designs for print, web and digital publications. *Pre-req: ABElec-5, ABElec-5L; Co-req: None*
- AB-THA - Thesis 1 (Proposal)** **3 units**
 The course describes the skills, knowledge, and performance outcomes required to develop a research orientation among students and to acquaint them with fundamentals of research methods like quantitative, qualitative, or mixed methods research approaches that will lead in the production of a good, timely, and relevant research study. Students will have to work on problems, where communication theories will be applied or tested. It also encompasses the critical understanding on identifying and assessing ethics issues related to research, the awareness and benefits of research in the field of interest and its help in their future career, in the society or community, and in the local and global environment. *Pre-req: ABCOMM133, ABCOMM223; Co-req: None*
- AB-THB - Thesis 2 (Final Stage)** **3 units**
 The course is the second phase of the Communication Thesis, which includes the completion of the final defense. *Pre-req: ABCOMM263, AB-THA; Co-req: None*
- AB-PRC6 - Communication Internship (600hrs)** **6 units**
 The practicum workload is intended to help undergraduates apply their formal education in a real work environment. Close contact with a workplace supervisor/mentor is needed. Attendance and participation is also a required at the practicum classes/seminars held at the start and finish of the successful practicum. *Pre-req: ABCOMM143, ABCOMM263, AB-THB; Co-req: None*
- ABElec-1 - Risk, Disaster, and Humanitarian Communication** **3 units**
 The process of communicating effectively with vulnerable stakeholders prior to, during and after the onset of risk situations. It also seeks to familiarize students with communication strategies used in humanitarian aid operations, which contribute to the protection of people and property in times of disasters or emergencies. *Pre-req: ABCOMM003; Co-req: None*
- ABElec-2 - Creative Writing** **3 units**
 Poetry and fiction as a means of developing imaginative approaches to experience. *Pre-req: None; Co-req: None*
- ABElec-5 - Basic Photography** **2 units**
 This subject introduces Photography to students as a medium of communication. Students will learn basic photographic composition, camera functions and photo editing. *Pre-req: ABCOMM093; Co-req: ABElec-5L*
- ABElec-5L - Basic Photography Lab** **1 unit**
 The laboratory component of ABElec-5 (Basic Photography) where photography techniques are applied. *Pre-req: ABCOMM093; Co-req: ABElec-5*
- ABElec-6 - Performance Media** **3 units**
 The development of performance skills for various program genres on radio, television and other media channels. Includes integration of media and communication technologies in performing arts. *Pre-req: ABCOM163, ABCOMM153, ABCOMM163; Co-req: None*
- ABElec-7 - Film Production** **2 units**
 This subject lets the students experience making their own film. Student will be part of a fully working film production. Students are expected to be part of committees in a film production. They will also experience on location shoots. *Pre-req: ABElec-5; Co-req: ABElec-7L*
- ABElec-7L - Film Production Lab** **1 unit**
 The laboratory component of ABElec-7 (Film Production) where students are required to produce a film as their final requirement. *Pre-req: ABElec-5L Co-req: ABElec-7*

F. BS PSYCHOLOGY PROFESSIONAL COURSES

Psych003 - Introduction to Psychology

3 units

A broad coverage of the conceptual and empirical foundations of psychology in its main fields. The discussion of the theories, concepts, and empirical findings focuses on complex human behaviour - how and why we think, feel and behave the way we do, how we act and interact with others, and why and how we become the unique individuals that we are. *Pre-req: None; Co-req: None*

Psych023 - Developmental Psychology

3 units

A study of human development throughout the life span in the areas of physical, social, cognitive, emotional, and moral development. Major developmental theories are tackled. Emphasis is given on the system perspective and the interactive dimensions of human development particularly in the Filipino setting. *Pre-req: Psych003; Co-req: None*

Psych033 - Psychological Statistics

3 units

This focuses on the collection and presentation measures of variation, location; probability distribution; statistical inference; central limit theorem; types of errors; t-test; non-parametric statistics; chi-square; sign test; Spearman's correlation coefficient and analysis of variance. *Pre-req: Psych003; GEC033; Co-req: Psych032L*

Psych032L - Psychological Statistics Lab

2 units

Basic concepts and methods of descriptive and inferential statistics and their use in the design, analysis, and interpretation of psychological studies. *Pre-req: Psych003; GEC033; Co-req: Psych033*

Psych043 - Theories of Personality

3 units

A survey of the major theories of personality and the theoretical and practical issues involved in the scientific study and understanding of personality formation and dynamics. *Pre-req: Psych003; Co-req: None*

Psych063 - Cognitive Psychology

3 units

An introduction to research and knowledge in the psychological study of important cognitive abilities including sensation and perception, attention, memory and representation, language and thinking. *Pre-req: Psych043; Psych023; Co-req: None*

Psych083 - Experimental Psychology

3 units

The philosophy and methods of science focusing particularly on experimentation in the investigation of problems and issues in psychology including ethical considerations in the conduct of experimental research. *Pre-req: Psych033; Psych032L; Co-req: Psych082L*

Psych082L - Experimental Psychology Lab

2 units

The student is expected to design and conducts experiments in psychology, write research reports, and present and defend the findings of the experiment. *Pre-req: Psych033; Psych032L; Co-req: Psych083*

Psych093 - Abnormal Psychology

3 units

An introduction to the nature, causes, and possible interventions of psychological disorders. The students are expected to be familiar with the nomenclature and classifications of mental disorders, by the end of the course. Indigenous concepts of abnormality and abnormal behaviour will also be discussed. Ethical considerations in abnormal psychology/clinical psychology are discussed. *Pre-req: Psych043; Psych023; Co-req: None*

Psych103 - Social Psychology

3 units

The scientific study of human social behaviour - how and why we think, feel, behave, and relate to one another in social situations the way we do. The major theories, concepts, and empirical findings in social psychology are dealt with. Social behaviour and social phenomena in the Philippine setting are examined from the social psychological perspective. *Pre-req: Psych083, Psych082L; Co-req: None*

Psych113 - Industrial/Organizational Psychology

3 units

A course providing an overview of psychological concepts, theories and research findings for effective human interactions and performance in the workplace. Topics include organizational structures and systems, organizational communication process, leadership, motivation, conflict, resolution, problem solving and decision making, team dynamics, efforts in human resource development and management, and organizational change and development. *Pre-req: Psych043; Co-req: None*

Psych123 - Sikolohiyang Pilipino

3 units

The course is a study of concepts and methods in the field of culture and psychology, giving meaning to psychological reality based on the language and worldview of the Filipino. The students will be introduced to indigenous concepts in Sikolohiyang Pilipino as a discipline and as a movement will also be discussed. The course will be conducted in Filipino. *Pre-req: Psych063; Co-req: None*

- Psych133 - Physiological/Biological Psychology** **3 units**
 The physiological approach to studying human behaviour. Basic concepts and findings in neuroscience with special emphasis on brain-body relationship, brain-behaviour relationship, and mind-behaviour relationship are treated in the course. *Pre-req: NSci063; Co-req: None*
- Psych143 - Group Dynamic** **3 units**
 Using experiential/inductive methods, the course provides students the opportunity to understand the dynamics of group processes and functioning such as communication, problem-solving, decision-making, leadership/membership, collaboration/competition, and self-awareness, particularly in a Philippine organizational setting. *Pre-req: Psych063; Co-req: None*
- Psych173 - Field Methods in Psychology** **3 units**
 This course covers both quantitative and qualitative field methods. It includes the design and administration of surveys, interviews, and focus group discussion. Learners will also be oriented on the use of secondary data and observations. *Pre-req: Psych082L; Psych083; Co-req: Psych172L*
- Psych172L - Field Methods in Psychology Lab** **2 units**
 In this course the student is expected to design and administer surveys, interviews, and focus group discussion using the secondary data and observations. *Pre-req: Psych082L; Psych083; Co-req: Psych173*
- Psych223 - Introduction to Clinical Psychology** **3 units**
 The course aims to provide students with a basic understanding of the nature, scope and techniques used in the field of clinical/counselling psychology, including approaches in the assessment and interventions in various psychological disorders. The course also discusses the roles, functions, and ethical considerations involved in the practice of the profession. *Pre-req: Psych093; Co-req: None*
- Psych263 - Psychological Assessment** **3 units**
 Orientation in the rudiments of psychological testing. The principles, methods and uses of psychological testing are tackled. Emphasis is placed on issues of item analysis, reliability, and validity in test construction. The administration, scoring, and interpretation of objective cognitive and affective tests used in various applied fields of psychology, particularly the educational, industrial, and government settings are covered. Ethical considerations as well as current trends and issues in psychological testing in the Philippine setting are discussed. *Pre-req: Psych043; Co-req: Psych262L*
- Psych262L - Psychological Assessment Lab** **2 units**
 This course will provide the students practical insights of the concepts learned from the lecture through laboratory experiments and exercises using different psychological tests, theories and concepts. *Pre-req: Psych043; Co-req: Psych263*
- Psych-RESA - Research in Psychology I** **3 units**
 A research methods course which aims to train the student in psychological research beginning from choosing a relevant problem-topic, reviewing the literature, postulating a conceptual framework, to planning for methodology and data analysis. The output is a mature research proposal. *Pre-req: Psych083, Psych282L, Psych172L, Psych173; Co-req: None*
- Psych-RESB - Research in Psychology II** **3 units**
 The second part is the implementation of the research proposal. The student is expected to come up with a well-written empirical research paper and is expected to defend the results, the discussion, and the conclusions. *Pre-req: Psych-RESA; Co-req: None*
- Psych-PRC-I - Industrial Practicum (200hrs)** **2 units**
Pre-req: Psych113, Psych262L; Psych263; Psych143; Co-req: None
- Psych-PRC-C - Clinical Practicum (200hrs)** **2 units**
Pre-req: Psych223; Psych093, Psych262L; Psych263; Psych143; Co-req: None
- Psych-PRC-E - Educational Practicum (200hrs)** **2 units**
Pre-req: Psych063; Psych143; Psych262L; Psych263; Co-req: None
 A course that will expose the students to the different settings where psychology is practiced as a profession, e.g. school setting, industrial setting, government, non-governmental organizations, hospitals. Students are required to complete a total of 200 hours of practicum work in the industrial setting, 200 hours in the educational settings and 200 hours in the clinical setting. The practicum class should meet at least twice a month to discuss the students' work progress, the observations, insights, reflections, and learning of the students during their practicum work, as well as issues in professional psychology including ethics and areas of concern of the students in their practicum work.

III. BUSINESS AND MANAGEMENT PROGRAM

A. COMMON BUSINESS EDUCATION COURSES

Blw003 - Law on Obligations and Contracts

3 units

This course gives the students an understanding of the legal concepts and rules governing the law of obligations and contracts and application of these concepts to practical problems. It involves the discussion of the nature, sources, kinds, and extinguishments of contracts including defective contracts and other miscellaneous topics relevant to the course. *Pre-req: None; Co-req: None*

Blw053 - Business Laws and Regulations

3 units

This course is intended to give students a broad knowledge of legal provisions governing business associations – limited liability company, partnership, and corporations. Topics include: nature of partnership; elements and kinds of partnership; formalities required; rules of management, distribution of profits, and sharing of losses and liabilities; modes of dissolution; limited partnership; nature and classes of corporations; requirements for incorporation; powers of a corporation (expressed, implied, and incidental); Board of Directors; classes of stock, powers, and obligations of stockholders; majority and minority controls; corporate reorganization (mergers, consolidations, and other business combinations); modes of dissolution and liquidation; and statutory books, records, and returns required for a corporation. The law of associations such as clubs are also discussed. *Pre-req: Blw003; Co-req: None*

BusEd053 - Management Science

3 units

The course introduces the basic concepts of Management Science and Operations Management and its application to business. The topics include project management, forecasting, inventory management, cost-benefit analysis and decision-making. The course develops problem solving and spreadsheet skills, an invaluable tool for modern business. *Pre-req: None; Co-req: None*

BusEd066 - Financial Accounting and Reporting

6 units

The course will cover a thorough discussion of the accounting cycle and introduces the students to concepts of financial accounting and learn the technical skills required for preparation and analysis of financial statements and disclosures. This course emphasizes on recording business transactions within the accounting and double entry system. It provides an understanding of both the Philippine and international financial reporting regulations, uses and limitation of financial accounting information and current issues in reporting including the integrated reporting concept. *Pre-req: None; Co-req: None*

BusEd083 - Good Governance and Social Responsibility

3 units

The course focuses on the basic concepts, principles, frameworks and practices of social responsibility and governance. It analyses the business frameworks and guides social responsibility and governance practice. It combines theory with field experience aimed at inspiring young leaders to become responsible citizens and entrepreneurs. It articulates the role of organizations/business in responding to the socio-economic and political realities present in its external environment; explores the impact of globalization on the practice of social responsibility and governance; and examines the role of students as citizens and future leaders in advocating social responsibility and good governance anchored on values. It includes utilization of theories, frameworks and models of social responsibility and good governance in the conceptualization of business/organizational practices. *Pre-req: BLW003 (for MKM only), GEC073; Co-req: None*

BusRes013 - Business Research

3 units

This course will involve the conduct of a business research/plan and apply a systematic inquiry that will help to solve business problems and contributes to management knowledge. This course will have a series of lectures by invited resource persons in all aspects of research in business management. The student will be required to present a research proposal. *Pre-req: HRM053, HRM173 (for HRM only), BLW003, FINMAN133, MNGT053 (for FINMAN only); Co-req: HRM-TH1 (for HRM only)*

ECO023B - Basic Microeconomics

3 units

The course introduces the three pillars of economic analysis (choice, scarcity, and coordination) and the mathematical techniques that economist use to represent these ideas (optimization, equilibrium, and adding-up constraints). Most of the course is devoted to “price theory” which is the analysis of the role that price plays in facilitating coordination on a market economy. The last part of the course deals with situations where coordination through prices may not result in desirable outcomes. The course allows to develop students’ ability to express these concepts using graphs, mathematics (particularly Calculus), and plain English, and to be able to switch fluently between these three modes of expression. *Pre-req: GEC033 (for HRM only); Co-req: None*

MNGT053 - Human Resource Management

3 units

This course deals with the study of different functions of Human Resource Department, different problems and issues arising from the implementation of these functions, and how these functions contribute to the effective use of people in order to attain organizational goals and enhance the personal dignity, satisfaction, and well-being of employees. *Pre-req: None; Co-req: None*

MNGT123 – Financial Management**3 units**

This course covers decision level responsibility for fund generation, fund allocation, capital structuring, and profit supervision. Emphasis is laid on long term financial planning, the distribution of capital, directing its use, assessing the management's use of capital and taking remedial action in managing the capital. *Pre-req: MKMT053, MKMT103, MNGT253; Co-req: None*

MNGT253 - Strategic Management**3 units**

The aim of this course is to provide students with a broad overview of the basic concepts in strategic management. The students will be expose to a number of frameworks and models to better understand and analyze the macro-environment, the industry environment, and firm level resources. The end goal is for the students to be able to think strategically, as opposed to only having a functional orientation, and to formulate and to implement creative and innovative strategies that are conducive to the demands of the firm and the environment in which it resides. *Pre-req: ActEd133 (for BSA only), MNGT053 (for HRM, MKM only); ENTRP013 (for ENTREP only) Co-req; HRM083 (for HRM only)*

MNGT263 - Operations Management (TQM)**3 units**

This course examines the subject of production and operations management (POM) and discusses its importance to the overall strategy and competitiveness of a firm in addition, this course focuses on specific tools used to manage and enhance a firm's operations and production, such as facility layout, product design, aggregate planning, inventory management, and forecasting. Other topics include process analysis and selection operations scheduling, quality management and statistical quality control and project management. *Pre-req: MNGT253 (for BSA, MKM only); HRM033, HRM023 (for HRM only), ENTRP013 (for ENTREP only); Co-req: None*

MNGT273 - International Business and Trade**3 units**

This course covers topics in international trade agreements, trade policies and restrictions, counter trade, world trade, tariff, foreign exchange, and balance of payments. This course provides materials to students to enable them to capsulize their knowledge of international trade especially entered into by ASEAN member nations. The course also equips students with fundamental knowledge on trade among nations in preparation for globalization. *Pre-req: BLW003, ECO023B; Co-req: None*

TAX013B - Income Taxation**3 units**

This course is primarily concerned with income taxation. The objective is to develop a working knowledge of the principles and rules of the income tax system as these apply to individuals, partnerships, and corporations. It covers an overview of the national tax system, and the income, taxation of employees and various business entities. It provides the students with knowledge of the capital gains tax, final tax on certain passive income, and the year-end tax including the minimum corporate income tax, the normal tax, and the improperly accumulated profits tax of corporations and withholding taxes. Tax forms are provided for specific topics discussed. *Pre-req: BLW003, GEC033; Co-req: None*

TAX073 - Business Taxation**3 units**

This course is an in-depth study of business taxes and is a continuation of Income Taxation. It covers value-added tax schemes; local direct taxes including real estate and other property taxes; excise taxes; transfer taxes on gratuitous transfer of property which are estate tax and the donor's tax; business taxes; and the remedies of the estate and the tax payer. On estate tax, the basic concept of succession gives the student an understanding of succession rights. Discussions on estate tax are on gross estate, deductions from the gross estate and computations for the net taxable estate, estate tax, and estate tax credit. On donor's tax, basic concepts of donation blend into the discussion of gross gifts, deduction from the gross profits and computations of net taxable gifts, donor's tax, and tax credit. On business taxes, the value-added tax, percentage taxes and the remedies of the taxpayers on taxes being assessed and/or erroneously paid are discussed. Emphasis is given on ethical consideration – tax avoidance and the minimization of tax liabilities vs. tax evasion. *Pre-req: Blw003; Co-req: None*

B. CORE ACCOUNTING COURSES**ActEd013 - Conceptual Framework and Accounting Standards****3 units**

This course includes the discussion of the conceptual framework that serves to assist preparers of financial reports in the application of International Financial Reporting Standards (IFRS) and the discussions of the basic accounting standards in the presentation of financial statements. The course will tackle the development of Financial Reporting Framework and Standard-Setting Bodies, Regulation of the Accountancy Profession, review of the accounting process, the preparation and presentation of the financial statements in accordance with the International Accounting Standards (IAS). *Pre-req: None; Co-req: None*

ActEd026A - Intermediate Accounting 1**6 units**

This course covers the detailed discussion, appreciation, and application of international standards/accounting principles involving assets, financial and non-financial. Emphasis is given on the interpretation and application of theories of accounting in relation to cash, temporary investments, receivables, inventories, prepayments, long-term investments, property, plant, and equipment, intangible and other assets, including financial statement presentation and disclosure requirements. The related internal control, ethical issues, and management of assets are also covered. Exposure to computerized system in receivables, inventory, and lapsing schedules is a requirement in this course. Applicable international financial reporting standards should be used in all topics cover. It includes introduction to Financial Instruments. *Pre-req: BusEd066; Co-req: None*

ActEd026B - Intermediate Accounting 2**6 units**

This course covers the detailed discussion of the financial accounting principles relative to the recognition, measurement, valuation and financial statement presentation of liabilities and shareholder's equity, including disclosure requirements. The related internal control, ethical issues, and management of liabilities and owner(s)' equity are also covered. This also deals with the contemporary issues such as leases, employee retirement benefits, deferred taxes, and current related items. Applicable international financial reporting standards shall be used as reference in all topics. Topics include Overview on Derivatives, Special Topics – Leases, Income Taxes, Accounting for Employee Benefits, and Share-Based Payment. *Pre-req: ActEd026A; Co-req: None*

ActEd023C - Intermediate Accounting 3**3 units**

This course deals with the preparation of a properly classified statement of financial position, statement of comprehensive income, statement of changes in equity, and statement of cash flows, including the required disclosures and notes to the financial statements. It also covers reconstruction of accounts from incomplete records, change from cash basis to accrual basis of accounting, correction of errors, accounting changes, discontinued operations, earnings per share, accounting for changing prices, interim reporting, segment reporting, and other current related items. The students will also be exposed to financial statements of specialized industries. Applicable international financial reporting standards should be used as reference in all the topics. *Pre-req: ActEd026B; Co-req: None*

ActEd043 - Governance, Business Ethics, Risk Management, and Internal Control**3 units**

This course will provide the students with an overview of risk that can threaten the attainment of organizational objectives. The course will discuss the interplay of corporate governance, risk management and control frameworks to identify, assess, and manage risk. It aims at enhancing the student's understanding of corporate governance, risk management, control and ethics that are crucial for organizations to meet their business objectives without compromising ethical and social responsibilities. *Pre-req: ActEd133; Co-req: None*

ActEd053 - Economic Development**3 units**

This is an intermediate undergraduate course in development economics. The course covers the following topics: the meaning and measurement of economic development, growth theories, poverty and income distribution, the role of geography and institutions, fertility and population growth, the role of credit markets and microfinance, health and nutrition, education, female empowerment. *Pre-req: ActEd093; Co-req: None*

ActEd062 - Statistical Analysis with Software Application**2 units**

This course focuses on the collection and presentation of data, measures of variation, location, probability distribution, statistical inference, central limit theorem, types of errors, t-test, non-parametric statistics, chi-square, sign test, spearman correlation coefficient, and analyses of variance. The students will also learn to use computer-based statistical software such as SAS, SPS, and other related software packages available in the market. *Pre-req: GEC033, Co-req: ActEd061L*

ActEd061L - Statistical Analysis with Software Application Lab**1 unit**

As the laboratory component of ActEd062 (Statistical Analysis with Software Application), the course focuses on the use of statistical tools and/ or programs in the application of theories learned. *Pre-req: GEC033, Co-req: ActEd062*

ActEd072 - Accounting Information System**2 units**

Accounting Information System (AIS) introduces students to the systems that underlie bookkeeping, accounting, financial reporting, tax reporting, and auditing in all business firms. Such systems are increasingly complex and in a continual state of flux do to rapidly changing technologies and security risks. In this course, the students learn about the development standards and practices for accounting information systems and gain hands-on experience in, the use of electronic spreadsheet software for advanced business analysis, and to gain hands-on experience with a commercial accounting software package. *Pre-req: ActEd133, BusEd066; Co-req: ActEd071L*

ActEd071L - Accounting Information System Lab**1 unit**

As the laboratory component of ActEd072 (Accounting Information System), the student shall gain hands-on experience in the use of electronic spreadsheet software for advanced business analysis and to gain hands-on experience with a commercial accounting software package. *Pre-req: ActEd133, BusEd066; Co-req: ActEd072*

ActEd093 - Managerial Economics**3 units**

The course is concerned with the application of economic principles and methodologies to key management decisions within organizations. It provides principles to foster the goals of the organization, as well as a better understanding of the external business environment in which an organization operates. *Pre-req: None; Co-req: None*

ActEd123 - Financial Management**3 units**

This course covers decision level responsibility for fund generation, fund allocation, capital structuring, and profit supervision. Emphasis is laid on long term financial planning, the distribution of capital, directing its use, assessing the management's use of capital and taking remedial action in managing the capital. *Pre-req: BusEd066; Co-req: None*

ActEd133 - Cost Accounting and Control**3 units**

This course is designed to orient the students to the cost accounting and cost management framework of business. Topics discussed are: overview of cost accounting, manufacturing cost accounting cycle; cost method: job order and process cost systems; accounting planning and control for materials, labor and overhead, accounting for joint and by product costs. *Pre-req: BusEd066; Co-req: None*

ActEd153 - Regulatory Framework and Legal Issues in Business**3 units**

This course deals with the law on sales, its nature, forms and requisites. It discusses rights and obligations of the vendor and vendee including remedies in case of defaults. It covers applicable laws on installment sales. The course also provides the students an understanding of the law on credit transactions such as pledges, real mortgages and chattel mortgages. It also discusses the insolvency law as well as corporate rehabilitation. The course also provides basic knowledge on the Law of Cooperatives and other laws on other business transactions such as the PDIC Law, Secrecy of Bank Deposits and Unclaimed Balances Law, General Banking Law, AMLA Law, The New Central Bank Act, and Intellectual Property Law. *Pre-req: Blw003; Co-req: None*

ActEd163 - Financial Markets**3 units**

This course introduces the students to the financial markets environment in which business organizations operate. The course presents an overview of the financial system and its various financial markets, instruments and institutions. *Pre-req: None; Co-req: None*

ActEd172 - IT Application Tools in Business**2 units**

This course is designed to provide Accountancy students with an overview of the systems analysis and design concepts, methodologies, techniques, and tools. The course starts with a discussion of the general system concepts, management's use of information, IT infrastructure and rules as they pertain to accounting, accountant's functions with respect to IT; the management of IT adoption, implementation and use, managing the security of information, and electronic commerce. It then proceeds to a discussion of the systems development environment, system development life cycle, system analysis and design techniques, system acquisition, development life cycle phases, tasks and practices and maintaining control over system development processes, and accounting system design issues. *Pre-req: ActEd062, ActEd061L, BusEd066; Co-req: ActEd171L*

ActEd171L - IT Application Tools in Business Lab**1 unit**

As the laboratory component of ActEd172 (IT Application Tools in Business), the students shall be exposed to the use of software or applications on analyzing and designing accounting systems. As an output, the students shall be required to make a design of an accounting system. *Pre-req: ActEd063, BusEd066; Co-req: ActEd172*

ActEd183 - Strategic Cost Management**3 units**

This course includes the discussion of Management Accounting Concepts & Techniques for Planning & Control which focuses on "strategic" cost management practices including capital budgeting, activity-based management, target costing, the just-in-time philosophy, quality costs, theory of constraints, among others. *Pre-req: ActEd133, Mngt253; Co-req: None*

ActEd213 - Strategic Business Analysis**3 units**

The course covers discussion of Management Accounting Concepts & Techniques for performance measurement (i.e. responsibility accounting and transfer pricing; balance score cards) and decision making (quantitative techniques and differential analysis). This course will equip the students with the knowledge and techniques to better understand an organization/industry and identify issues and opportunities. *Pre-req: ActEd133, Mngt253; Co-req: None*

ActEd253 - Accounting Research Methods**3 units**

This course introduces the students to professional and scientific research in accounting. The course instructs in research methods, issues, research appreciation and evaluation together with individual practice in planning, conducting, and reporting professional research projects in accounting. The primary emphasis of the course will be on developing skills for conducting research and comprehending research output in an applied and professional context. *Pre-req: ActEd013, ActEd062, ActEd061L, Blw053; Co-req: None*

ActEd263 - International Business and Trade**3 units**

This introductory course focuses on the core concepts and techniques for entering the international marketplace. Emphasis is on the effect of sociocultural, demographic, economic, technological, and political-legal factors in the foreign trade environment. As an introductory survey course, we will cover a variety of topics to illustrate the unique nature of international business including the patterns of world trade, currency exchange and international finance, globalization of the firm, international marketing, and operating procedures of the multinational enterprise. *Pre-req: BusEd066; Co-req: None*

C. ACCOUNTING PROFESSIONAL COURSES**ACCT123 - Auditing and Assurance Principles****3 units**

This course is designed to expose students both to the demand for and the supply of the profession's flagship service – financial statements audit – and to the nature of the value-added assurance services which decision makers demand in the information age.

Topics are discussed based on the applicable international auditing standards. It also discuss in detail the basic professional values, the Code of Ethics for Professional Accountants in the Philippines and the Accountancy Law. *Pre-req: ActEd133, Blw003, BusEd066; Co-req: ACCT233A*

ACCT173 - Accounting for Special Transactions

3 units

This course deals with specialized accounting problems likely to be encountered by accountants. The study of the various topics in this course is based upon fundamental valuation accounting and accounting theory as applied to special income and expense recognition methods and expanded business operations. This course includes specialized problems in partnership accounting; accounting for joint ventures and associated enterprises; accounting for domestic branches; accounting for installment sales; accounting for long-term construction contracts; fire insurance accounting; and other special issues such as build-operate-transfer (BOT) and similar schemes. Relevant and current IAS/IFRS. Interpretations of the Standards should be used in the foregoing topics. *Pre-req: ActEd133, Blw003, BusEd066; Co-req: None*

ACCT183 - Accounting for Business Combinations

3 units

This course is a continuation of Advanced Financial Accounting and Reporting Part I. It deals mainly with consolidation and mergers, parent-subsidiary relationship, and consolidated statements, including foreign subsidiaries. The other topics deal with accounting for the effects of changes in foreign exchange rates and other similar current issues. Also discussed are debt, restructuring, accounting for financially distressed corporations, accounting for the winding up of an enterprise and accounting variations among countries. *Pre-req: ActEd133, Blw003, BusEd066; Co-req: None*

ACCT223 - Accounting for Government and Non-Profit Organizations

3 units

This course is the last part of the advanced financial accounting and reporting and covers accounting for government and not-for-profit organizations such as universities, NGOs and hospitals accounting and specialized industries like banking, insurance and extractive industries. A large part of the course covers the Philippine Government Accounting Standards (PGAS) and the New Government Accounting System (NGAS) prescribed by the Commission on Audit. Includes Accounting for Derivatives, Financial reporting for specialized industries, Financial reporting for specialized topics (Environmental costs and liabilities and Governmental assistance). *Pre-req: None; Co-req: None*

ACCT233A - Auditing and Assurance: Concepts and Applications 1

3 units

This is a continuation of Assurance Principles and Professional Ethics, focusing on financial statements audit. It covers detailed approaches to problems and situations normally encountered in the independent examination of cash, receivables, inventories, investments, prepaid expenses, deferred charges, property, plant and equipment, intangibles assets. It deals specifically with the application of relevant auditing standards, techniques, and procedures; internal control evaluation; preparation of audit working papers; introduction of computer application in auditing; audit adjustments; and audit reports pertaining to a medium-sized manufacturing or trading concern. The determination of audit objectives and audit programs, evaluation of internal control, and determination of substantive procedures as applied to various accounts are better appreciated as the transaction cycle approach is employed in the course. Audit working papers and audited financial statements are the natural outputs of this course leading to the preparation of audit reports. *Pre-req: None; Co-req: ACCT123*

ACCT233B - Auditing and Assurance: Concepts and Applications 2

3 units

This is a continuation of Assurance Principles and Professional Ethics, focusing on financial statements audit. It covers detailed approaches to problems and situations normally encountered in the independent examination of short and long-term liabilities, owners' equity, and revenue and expenses. It deals specifically with the application of relevant auditing standards, techniques, and procedures; internal control evaluation; preparation of audit working papers; introduction of computer application in auditing; audit adjustments; and audit reports pertaining to a medium-sized manufacturing or trading concern. The determination of audit objectives and audit programs, evaluation of internal control, and determination of substantive procedures as applied to various accounts are better appreciated as the transaction cycle approach is employed in the course. Audit working papers and audited financial statements are the natural outputs of this course leading to the preparation of audit reports. *Pre-req: ACCT233A; Co-req: None*

ACCT243 - Auditing and Assurance: Specialized Industries

3 units

This is a continuation of Assurance Principles and Professional Ethics, focusing on financial statements audit. It covers detailed approaches to problems and situations normally encountered in the independent examination of cash, receivables, inventories, investments, prepaid expenses, deferred charges, property, plant and equipment, intangibles, liabilities, owners' equity, and revenue and expenses. It deals specifically with the application of relevant auditing standards, techniques, and procedures; internal control evaluation; preparation of audit working papers; introduction of computer application in auditing; audit adjustments; and audit reports pertaining to a medium-sized manufacturing or trading concern. The determination of audit objectives and audit programs, evaluation of internal control, and determination of substantive procedures as applied to various accounts are better appreciated as the transaction cycle approach is employed in the course. Audit working papers and audited financial statements are the natural outputs of this course leading to the preparation of audit reports. *Pre-req: ACCT123; Co-req: None*

ACCT-ST013 - Special Topics in Financial Accounting and Reporting

3 units

This subject covers assessing the students' ability to demonstrate understanding and application of accounting principles and standards relating to: nature and composition of accounts; initial recognition; measurement and valuation, subsequent events and

transactions; subsequent measurement and recognition of losses due to impairment and other causes; related party transactions, financial statement presentation and disclosures. *Pre-req: ACCT-PRC6, ACCT-RESB; Co-req: None*

ACCT-ST023 - Special Topics in Advanced Accounting

3 units

This subject covers evaluating the students' knowledge of the concepts and principles in advanced financial accounting and reporting and the application of these accounting concepts including techniques and methodology to problems likely to be encountered in practice. Students should know and understand problems involving accounting of special transactions and their effects and presentation in the financial statements including among others: accounting for partnerships, corporate liquidation, joint arrangements, revenue recognition, home office and branch/ principal and agency transactions, business combinations and consolidations, foreign currency transactions and translations, not-for-profit organizations, including government accounting and cost accounting and treatment and presentation of consolidated financial statements,. Also, a working knowledge of the standards related to these special topics is expected of the students. *Pre-req: ACCT-PRC6, ACCT-RESB; Co-req: None*

ACCT-ST033 - Special Topics in Management Accounting and Control

3 units

The subject covers the assessment of the students' knowledge of the concepts, techniques and methodology applicable to management accounting, financial management and management consultancy. Students should know and understand the role of information in accounting, finance and economics in management consultancy and in management processes of planning, controlling and decision-making. *Pre-req: ACCT-PRC6, ACCT-RESB; Co-req: None*

ACCT-ST043 - Special Topics in Auditing

3 units

This subject covers the evaluation of the students' knowledge of the principles and concepts of auditing and the practical application of these principles and concepts. There shall be two parts of this subject: Auditing Theory and Auditing Problems. *Pre-req: ACCT-PRC6, ACCT-RESB; Co-req: None*

ACCT-ST053 - Special Topics in Taxation

3 units

This subject covers the assessment of the students' knowledge of the principles and concepts of taxation and the practical application of these principles and concepts. Students are expected to know the National Internal Revenue Code (NIRC) provisions on income tax, business taxes (value-added and percentage taxes), estate tax, donor's tax; the Tariff and Customs Code; Local Government Code on local taxes; preferential tax or tax exemption provisions and taxes pertaining to senior citizens and persons with disability, Board of Investments, PEZA, BMBE, various Tax Treaties and other special laws and issuances that may be legislated in the future. The students must be familiar with the Implementing Rules and Regulations, circulars, rulings and other issuances pertinent to the implementation of the various taxation laws earlier specified. The students should know the taxation principles in the decisions of the Court of Tax Appeals, Court of Appeals and Supreme Court. *Pre-req: ACCT-PRC6, ACCT-RESB; Co-req: None*

ACCT-ST063 - Special Topics in Regulatory Framework for Business Transactions

3 units

This subject covers the evaluation of the students' knowledge of the regulatory framework governing business transactions and business organizations/associations, and of business laws including their legal implications. Students should know and understand the pertinent legal provisions, general principles, concepts, and underlying philosophy of the laws applicable to commerce and business. The students must have sufficient knowledge to enable them to recognize the legal implications of business situations or transactions and to know when to seek legal counsel or recommend that it be sought. *Pre-req: ACCT-PRC6, ACCT-RESB; Co-req: None*

ACCT-RESA - Accounting Research 1 (Proposal)

3 units

This course is a capstone course where students are required to use knowledge obtained from previous accounting and finance courses including research skills learned to solve accounting and finance problems. The students shall learn applied research for solving complex accounting and finance issues and train and equip them in making sound economic decisions. The output of this course shall be a research proposal. *Pre-req: ActEd253; Co-req: None*

ACCT-RESB - Accounting Research 2 (Final)

3 units

The required output for this course shall be a full-blown research paper. Formal defense of results of research is required. *Pre-req: ActEd253, ACCT-RESA; Co-req: None*

ACCT-PRC6 - Accounting Internship (600 hrs)

6 units

This is mentored practical experience conducted under a memorandum of agreement between the Colegio and an industry partner which requires one semester for 600 contact hours. This undertaking may cover the areas of accounting, external audit, internal audit, or tax. *Pre-req: ActEd253; Co-req: None*

ACElec-1 - Updates in Financial Reporting Standards

3 units

This course will discuss and tackle the latest developments and promulgation on the Philippine Reporting Standards (PFRS). *Pre-req: BusEd066; Co-req: None*

ACElec-2 - Human Behavior in Organizations**3 units**

This course introduces the students to the factors affecting the behavior of individuals and groups in an organization focusing on the specific factors that tend to explain behavior of individuals, groups, and organizations. Various theories and models of organizational behavior, work group behavior, motivation in life and work, and human relations among others are discussed and related to organizational practices and phenomena. *Pre-req: BusEd066; Co-req: None*

ACElec-3 - Operations Auditing**3 units**

This course will prepare the students determine the reliability of financial and operational reporting, assess the economy, efficiency and effectiveness of the business operations, and verify that the organization's assets are being properly used and safeguarded. The course will help students verify that internal controls are operating as intended and to determine if processes are efficient and support objectives of the organization. *Pre-req: ACCT123, BusEd066; Co-req: None*

ACElec-4 - Valuation Concepts and Methods**3 units**

This course is designed to enhance the students' ability to report and analyze financial information. Students will gain ability to evaluate a company's current financial position, assess operating performance, and identify alternate courses of action. The course covers all major topics for valuing businesses, analytical methodologies, and practical applications both for transactions and business management. *Pre-req: BusEd066; Co-req: None*

D. MARKETING MANAGEMENT PROFESSIONAL COURSES**MKMT013 - Consumer Behavior****3 units**

This course involved a study of consumer behavior as a tool for marketing decision. It describes the rationale for studying, the consumer behavior outcomes, and the consumer behavior process: the psychological core, the process of making decisions, and the post-decisions evaluation. Consumer culture, consumer behavior outcomes and issues concerning consumer welfare is also discussed. *Pre-req: None; Co-req: None*

MKMT023 - Advertising**3 units**

This course aims to provide thorough understanding about Advertising and the real world. It will help the students analyze marketing/advertising opportunities and will be able to know the process in creating and advertising plans. This course discusses details about advertising foundation and environment, advertising media, and creating advertisements. This will introduce students to the richness and variety of the advertising world. *Pre-req: MKMT053, MKMT073; Co-req: None*

MKMT033 - Marketing Research**3 units**

This course deals with the study of planning, collection and analysis of data relevant to marketing decision making and communicating the results of this analysis to management. It further deals with the function which consumer, customer and public to the marketer through information that is used to identify and define marketing opportunities and problems; generate, refine and evaluate marketing actions; monitor marketing performance and improve understanding of marketing as a process. *Pre-req: BLW003, BusEd083, MKMT043; Co-req: None*

MKMT043 - Professional Salesmanship**3 units**

This course will put selling on a professional basis – that takes into account the demands of changing times, advanced technologies, new products, and sophisticated buyers. *Pre-req: None; Co-req: None*

MKMT053 - Marketing Management**3 units**

This course covers the nature, importance and techniques on sales management. The organization and the different aspects of organizing and strategic planning for selecting applicants for an effective sales force are also emphasized. This also discusses planning for effective marketing. *Pre-req: MKMT013; Co-req: None*

MKMT063 - Strategic Marketing Management**3 units**

The course introduces student to the process of developing and managing marketing strategy, examining how firms create and sustain customer value – from market analysis and product positioning to communications and channel systems design. *Pre-req: MKMT053, MKMT103, MNGT253; Co-req: None*

MKMT073 - Retail Management**3 units**

This course provides the students with a comprehensive view of retailing and an application of marketing concepts in a practical retail managerial environment. We will analyze the current multi-channel retail strategies among bricks-and-mortar and web-based firms. Retailing is changing today, and the successful business will know how to identify, adapt, and plan with the changes, without moving away from its core competencies. We will consider: the development of a retail format and its strategy, the analysis of a target market, demographic analysis related to site selection, retail personnel issues, and category management. Buying, financial analysis, and pricing will also be investigated. *Pre-req: MKMT013; Co-req: MKMT083*

MKMT083 - Product Management**3 units**

The course discusses product management that deals with all of end-to-end aspects of a product or product line including product profitability. It deals with the study of classification of products; and product feature decisions (branding, labeling, packaging, style, color, warranty, quality and post-sale services). It also discusses the challenges, the rationale and the stages in introducing new products and managing different product life cycles. The management of product in form of services is also studied in the course. *Pre-req: MKMT053; Co-req: MKMT073*

MKMT093 - Distribution Management**3 units**

This course covers the principles and functions of distribution management, the roles of marketing channels and physical distribution in the marketing system, the cost implications of management decisions involving distribution. The course aims to crystalize students' understanding of distribution cost analysis through their involvement in exercises and actual projects in the area of distribution management. *Pre-req: MKMT053; Co-req: None*

MKMT103 - Sales Management**3 units**

This course relates to the principles of sales management functions. The subject covers the functions and methods of recruiting, selecting, training, motivating, equipping, compensating, controlling, and supervising salesmen. Understand the nature of the scope of work of an executive responsible for group sales persons tasked to promote and sell a particular product; understand and discover new selling techniques in a highly competitive and technologically advanced marketing environment. The student will learn to prepare a sales program for a given product; beginning with the launching stage until the full cycle has been completed, integrating therein his social responsibilities towards consumers and other sectors of society. *Pre-req: MKMT043; Co-req: None*

MKMT123 - Digital Marketing**3 units**

This course provides the students with a comprehensive view of digital marketing concepts in a highly technological business environment. The key objective of this course is to equip the students in promoting brands through various forms of digital media. *Pre-req: MKMT033, MKMT083; Co-req: None*

MKMT-BR1 - Business Research 1**3 units**

This course is a series of lectures in business management to prepare the students in conducting a Feasibility Study. The students will be required to present a research proposal. *Pre-req: GEC063, MKMT033; Co-req: None*

MKMT-BR2 - Business Research 2**3 units**

This course is continuation of MKMT-BR1 (Business Research 1). The students will be required to present the results of their research. *Pre-req: MKMT-BR1; Co-req: None*

MKMT-PRC6 - Internship (600hrs)**6 units**

The student will be required to do an on-the-job training (OJT) with any office or company specifically on the sales and marketing aspect. The student will be evaluated by the supervisor/manager to whom he/she is directly reporting. At the end of the course, he/she should submit a report indicating recommendations for improvement of the company with which he/she has worked. *Pre-req: MKMT043, MKMT063; Co-req: None*

MKMT-ELEC1 - Entrepreneurial Management**3 units**

The course aims to teach the approach entrepreneurs use in identifying opportunity and creating new ventures; the analytic skills that are needed to practice this approach; and the background knowledge and managerial skills that are necessary for dealing with the recurring issues involved in starting, growing, and harnessing the value of new ventures. *Pre-req: MKMT033; Co-req: None*

MKMT-ELEC2 - E-Commerce and Internet Marketing**3 units**

This course provides the student with a comprehensive view of E-Commerce and Internet Marketing that continues to grow at a rapid pace; marketers are faced with new challenges and opportunities within this digital age. *Pre-req: MKMT083; Co-req: None*

MKMT-ELEC3 - International Marketing**3 units**

This course is intended to familiarize the students with the principles and practices of global marketing. The topics include the scope and challenges of international marketing, the cultural environment of global marketing management, and corporate context of marketing. *Pre-req: MKMT033, MKMT043, MKMT113; Co-req: None*

MKMT-ELEC4 - Special Topics in Marketing**3 units**

The course covers range of major issues that have impact on sales and marketing. This may be done on a modular approach, symposia and seminars; and shall dwell on current issues and trends, government and non-government developments that affect marketing including domestic and international concerns. *Pre-req: MNGT253; Co-req: None*

E. HUMAN RESOURCE MANAGEMENT PROFESSIONAL COURSES

HRM023 - Administrative and Office Management

3 units

This course is designed to study the basic principles of office management including the areas of recruiting and orienting the office staff, supervising and promoting office personnel, problem solving and communication processes to include coverage of telephone techniques, ergonomics and office productivity. In addition to classroom activities, this course includes 12 hours of office simulation in the business laboratory. *Pre-req: MNGT053; Co-req: None*

HRM033 - Labor Law and Legislation

3 units

The course is an introduction to the basic concepts and principles of the Philippine Labor Code as an indispensable tool in human resource management. Knowing the various labor and social legislations is as essential as knowing the basic laws of the land. The scope will also cover the different government instrumentalities involved in implementing labor and social legislations like the Department of Labor and Employment, National Labor Relations Commission, the Social Security System among others. An opportunity is provided to students to learn how the various labor laws affect the manner the business operates, the interplay of various sectors, the limitation and scope of freedom in the workplace and how they influence the culture of the organization. *Pre-req: BLW003, MNGT053; Co-req: None*

HRM043 - Recruitment and Selection

3 units

This course provides the fundamental methodologies of attracting new talents needed by the organization with emphasis on effective sourcing of work force, selection of prospective employees, matching job requirements with qualifications of applicants in the workplace, induction of newly hired employees to facilitate their integration in the new business environment. The students will be oriented with the strategies and techniques to fill up vacant positions at the right time with adequate qualifications of new hires to help organization achieves its business plans and operational objectives at a given period. *Pre-req: HRM033, MNGT053; Co-req: None*

HRM053 - Employee Training and Development

3 units

This course discusses training as related to organizational objectives. Training models, learning theories, instructional techniques, evaluation methodologies and topics of special interest are emphasized. *Pre-req: HRM043; Co-req: None*

HRM063 - Performance Management System

3 units

This course identifies the knowledge and skills needed for effective management of individual and team performance and examines the design of performance management systems that aim to transform organizational objectives into performance outcomes. The topics covered in the course range from the analysis of several components of the performance management process through an examination of approaches to performance measurement, to implementing a performance management system and considering different activities and techniques to improve employee performance. *Pre-req: MNGT053, Co-req: HRM093B, HRM083*

HRM073 - Labor Relations and Negotiations

3 units

The course uses cases, lectures and simulations to develop negotiation skills in a variety of management situations, including union-management relations. Issues include pre-employment discussions, collective bargaining, arbitration, mediation, agency, renegotiating contracts, and multiparty discussion. *Pre-req: HRM033; Co-req: HRM173*

HRM083 - Organization Development

3 units

The course explores the history, major trends, and ethical and professional issues in the organizational development field, while illustrating the OD practitioner's analysis, data gathering, intervention processes and techniques. The students will gain sufficient knowledge on the theoretical models and the process of OD. They will learn how to improve individual, group/team and organizational performance using OD techniques or interventions like group dynamics, training, culture change, and work-life balance among others. *Pre-req: HRM053, HRM173; Co-req: HRM063, MNGT253*

HRM093B - Compensation Administration

3 units

This course includes the examination of theories, models, and procedures required to develop compensation and reward systems in organizations. The economic, psychological, and social elements of compensation will be emphasize. The students will be oriented on the different compensation philosophies, structures, and systems being practice in most organizations. *Pre-req: MNGT053, HRM033; Co-req HRM063*

HRM0173 - Employee Relations and Services

3 units

The course focuses on the study of promoting good management practices and workplace behaviors, positive working environment and relationship, and on complying with Human Resource Policies and Procedures. It will include topics on employee assistance and occupational safety for employees to make the work environment more positive, enjoyable, and less stressful. *Pre-req: HRM033; Co-req: HRM073*

HRM212 - Human Resource Information System (HRIS)**2 units**

This course is designed to provide the students an introduction to the use of technology in the administration of human resources, and how new technologies can contribute significantly to the efficiencies in the management of a company's human capital. *Pre-req: HRM093B; Co req: HRM211L*

HRM211L - Human Resource Information System (HRIS) Lab**1 unit**

This course is the laboratory component of HRM212 (Human Resource Information System) that intends to provide hands-on experience to students in using the Human Resource Information System software. *Pre-req: HRM093B; Co-req: HRM212*

HRM223 - Special Topics in Human Resource Management**3 units**

This course covers a range of major issues that impact human resource management in organizations including demographic and social change, ethics in HRM, managing diversity, assessment center techniques, the impact of government legislation on HRM, the contribution of HRM to productivity, managing outsourcing, career development and mentoring. *Pre-req: HRM063, HRM083, HRM093B; Co-req: None*

HRM-TH1 - Thesis 1 (Research Proposal)**3 units**

This course will involve the preparation of a research study that will focus on the identification of a research topic in business management particularly in the field of human resource management. It shall provide series of lectures about the research process that will equip the students with competencies to undertake a scientific investigation. The course culminates with an oral presentation of the proposed research/study at the end of the semester. *Pre-req: None; Co-req: BusRes013*

HRM-TH2 - Thesis 2 (Presentation and Submission of Research Paper)**3 units**

This course is a continuation of HRM-TH1 (Thesis 1-Research Proposal). The students are required to defend the results of their study and submit the final copy of their manuscript ready for publication. *Pre-req: HRM-TH1; Co-req: None*

HRM-PRC6 - Internship (600hrs)**6 units**

The Internship program integrates the theory and knowledge of the course content with the application of principles and practices in a work environment. It allows students to apply theories learned in school to actual work experiences where they would find a learning cohesion between school and employment.

It also helps to expand learning options beyond traditional classroom environment. The program also enhances the students' knowledge that relates to specific useful skills. Through feedback from the students, the institution usually gets ideas for policy formulation and for improvement of its curriculum, thus, mutually benefitting them and the school.

The Internship focus, substance, and approach will vary depending on the particular program or specialization of the students and on their specific needs, interest, goals and objectives. Decision on the nature, location, and activities of the practicum are arrived at from discussion and agreement made among the school administrators, faculty advisor, Practicum site supervisor, and the students. *Pre-req: LQEC343, LQEC353, LQEC363; Co-req: None*

HRMELEC-1 - Entrepreneurial Management**3 units**

This course aims to teach the approach entrepreneurs use in identifying opportunities and creating new ventures; the analytic skills needed to practice this approach; and the background knowledge and managerial skills that are necessary for dealing with the recurring issues involved in starting, growing and harnessing the value of new ventures. *Pre-req: MNGT253, MNGT273; Co-req: None*

HRMELEC-2 - Managerial Accounting**3 units**

This course is an introduction to the principles, techniques, and uses of accounting in the planning and control of business organizations from a management perspective. It will orient the students to the business concepts and methods used to report *managerial* performance information to internal users and managers to assist in making sound business decisions in managing the firm. *Pre-req: MNGT253, MNGT263; Co-req: None*

HRMELEC-3 - Project Management**3 units**

The course orients the students with the fundamental concepts of project management. It will help them examine the project management life cycle, defining project parameters, matrix management challenges, effective project management tools and techniques, and the role of a project manager. *Pre-req: MNGT253, MNGT263; Co-req: None*

HRMELEC-4 - Personal Finance**3 units**

The course is designed to help students to become financially responsible and conscientious members of society. The students will understand the impact of individual choices on occupational goals and future earnings potential and assist them how to set *personal* and *financial* goals and develop a *financial* plan. *Pre-req: BLW003, GEC073, TAX013B; Co-req: None*

F. FINANCIAL MANAGEMENT PROFESSIONAL COURSES

FINMAN113 - Banking and Financial Institutions

3 units

Courses in this area are designed to develop an understanding of financial institutions and financial markets and their relationship to public policies and management policies. Included are studies of market structure, profit strategies, relationship of commercial banks and other financial institutions, problems of asset and liability management, and theory of interest and asset prices. *Pre-req: None; Co-req: None*

FINMAN123 - Financial Management

3 units

Introduction to financial management and finance; Cash flows and financial analysis; The make-up of interest rates, risk and the time value of money in financial calculations; The techniques of valuing bonds and stocks and the risks associated with valuations; Capital budgeting techniques, cash flows estimation and risks in capital budgeting; The components of capital, the cost of capital and leverage; Managing working and capital, cash and financing; Corporate financial planning, corporate restructuring and international finance. *Pre-req: FINMAN113; Co-req: None*

FINMAN133 - Financial Analysis and Reporting

3 units

This course deals with solving common financial problems. The primary focus is on equity (share) valuation, with some attention given to credit analysis and the valuation of debt. The methods of fundamental analysis will be examined in detail and applied in cases and projects involving listed companies. Topics include models of shareholder value and a comparison of accounting and discounted cash flow approaches to valuation, methods of financial statement analysis, testing the quality of financial reports, designing value-added metrics, forecasting earnings and cash flows, pro-forma analysis for strategy and planning, and the determination of price/earnings and market-to-book ratios. *Pre-req: FINMAN113; Co-req: None*

FINMAN143 - Credit and Collection

3 units

This course covers techniques of establishing the credit, obtaining and checking information, servicing the loan, billing and collecting the amount due. Each of a bank's installment credit operation is carefully scrutinized. After successfully completing this course the student should have a working knowledge of: Collection policies and procedure; Principles of credit evaluation; Open-end credit; Direct lending; Leasing of consumer goods; Indirect lending; Legal aspects of installment credit; Organizing and managing an installment loan department. *Pre-req: FINMAN123; Co-req: None*

FINMAN153 - Monetary Policy and Central Banking

3 units

Part 1: Introduction and Overview – Barter, payments and a money economy; Money, inflation, interest rates and output; Intermediation and the financial system; Financial instruments, markets and institutions; Interest Rates and term structure:

- Financial services industry; Origins of banks; Why is the financial industry special; Banking and financial regulation; Risks in financial intermediation.
- Money creation and central banking; Multiple deposit creation; Demand and supply for money and reserves; Deposit creation by banks and the role of a central bank; Instruments of monetary policy
- Operation of the monetary board

Part 2: Central Banking - Central Banking Chapters; Crosses, Models, and Curves; Monetary Theories; Policies, Ideas and Results. *Pre-req: FINMAN123, FINMAN133; Co-req: None*

FINMAN163 - Capital Market

3 units

This course focuses on Capital Market Theory, its efficiency and implications. It establishes its coherence with the rest of the financial institutions within the financial environment. The course also deals with the relationship of the financial market with the government and how the latter stands a powerful influential tool. The course likewise attempts to develop the analytical ability of the students through various financial case presentations. *Pre-req: FINMAN123, FINMAN133; Co-req: None*

FINMAN173 - Investment and Portfolio Management

3 units

This course deals with the study of the fundamental theories of optimal portfolio selection, investment evaluation, securities valuation, industry and company analysis in relation to stock market operations, management of fixed income investments, international portfolio diversification. *Pre-req: FINMAN163; Co-req: None*

FINMAN183 - Special Topics in Financial Management

3 units

It provides an overview of tools, techniques, and frameworks commonly used as part of market and industry assessments, on engagements involving substantial operational and organizational analysis. It highlights the principle financial analytical tools used to conduct strategic analysis and indicates the link between corporate strategy and performance through measurement frameworks used frequently to provide decision making information to management. *Pre-req: FINMAN123, FINMAN133; Co-req: None*

FINMAN-ELEC1 - Public Finance

3 units

Examines issues central to majority of the most pressing issues in public affairs: market outcomes, government expenditure programs, and taxation; Examines the major strengths and weakness of the market and explore why government involvement is necessary, Examines the models welfare economics use to describe optimal patterns of government expenditure and taxation, Use

the models to analyze real-world problems and programs, And use of both efficiency and equity criteria to evaluate many policies and policy proposals. *Pre-req: FINMAN123; Co-req: None*

FINMAN-ELEC2 - Entrepreneurial Management

3 units

The course aims to teach the approach entrepreneurs use in identifying opportunity and creating new ventures; the analytic skills that are needed to practice this approach; and the background knowledge and managerial skills that are necessary for dealing with the recurring issues involved in starting, growing, and harnessing the value of new ventures. *Pre-req: FINMAN0123, FINMAN133; Co-req: None*

FINMAN-ELEC3 - Risk Management

3 units

This course covers the strategies employed include transferring the risk to another party, avoiding the risk, reducing the negative effect of the risk, and accepting some or all of the consequences of a particular risk. Traditional risk management focuses on risks stemming from physical or legal causes (e.g. natural disasters or fires, accidents, death, and lawsuits). Financial risk management, on the other hand, focuses on risks that can be managed using traded financial instruments. Intangible risk management focuses on the risks associated with human capital. *Pre-req: FINMAN43, FINMAN163; Co-req: None*

FINMAN-ELEC4 - Financial Controllershship

3 units

A course in the controllership function in a business organization with focus on financial institutions (banks, investment houses, finance companies, stock brokerages, and insurance companies). It covers the management of data and information, the systems of control through operating and capital budgets, tax administration, protecting of assets, and general internal control systems and procedures. *Pre-req: FINMAN153; Co-req: None*

FINMAN-TH1 - Thesis/Feasibility Study 1

3 units

This course will involve the conduct of a research or feasibility study that will look at the viability of a business idea or theory with an emphasis on the identification of potential problems and an attempt to answer these problems. This course will provide in-depth details about the research at hand. The course culminates with the defense of the research/study at the end of the semester. *Pre-req: BusRes013; Co-req: None*

FINMAN-TH2 - Thesis/Feasibility Study 2

3 units

At the end of the semester, the culminating activity is the defense of the research/study. *Pre-req: FINMAN-TH1; Co-req: None*

FINMAN-PRC6 - Internship (600hrs)

6 units

The Internship program integrates the theory and knowledge of the course content with the application of principles and practices in a work environment. It allows students to apply theories learned in school to actual work experiences where they would find a learning cohesion between school and employment.

It also helps to expand learning options beyond traditional classroom environment. The program also enhances the students' knowledge that relates to specific useful skills. Through feedback from the students, the institution usually gets ideas for policy formulation and for improvement of its curriculum, thus, mutually benefitting them and the school.

The Internship focus, substance, and approach will vary depending on the particular program or specialization of the students and on their specific needs, interest, goals and objectives. Decision on the nature, location, and activities of the practicum are arrived at from discussion and agreement made among the school administrators, faculty advisor, Practicum site supervisor, and the students. *Pre-req: BLW063, FINMAN173; Co-req: None*

G. ENTREPRENEURSHIP PROFESSIONAL COURSES

ENTRP013 - Entrepreneurial Behavior

3 units

The course introduces the students to the economics of the firm and how resource is allocated by individual decision making units. In particular, the course expounds on the basic microeconomic theories governing the concepts of demand and supply, production theory, costs, and pricing and output determination. *Pre-req: None; Co-req: None*

ENTRP023 – Microeconomics

3 units

At the end of the semester students should be able to enumerate and identify entrepreneurial traits, behaviors and competencies. During the course the students will be able to perform self-assessment to determine their predisposition to entrepreneurs. The course will also include personal entrepreneurial competencies, management styles, business ethics, responsibilities and duties of entrepreneur. *Pre-req: None; Co-req: None*

ENTRP033 - Programs and Policies on Enterprise Development

3 units

This course focuses on how an enterprise formulate, implement, and evaluate strategies. The course integrates globalization, the natural environment, ethics and technology in the module. *Pre-req: ENTRP013; Co-req: None*

ENTRP043 - Opportunity Seeking**3 units**

At the end of the course, the students are able to apply project planning. This course will include steps/stages in project planning, evaluation of external factors affecting entrepreneurial activities, internal factors in identifying business opportunities, and environmental scanning. Also, at the end of the semester, students are able to apply project identification/ selection techniques, and actually identify and select the business opportunity the student would like to pursue. The students will also be taught how to relate entrepreneurial competencies with project selection while considering the current business environment. *Pre-req: ENTRP013; Co-req: None*

ENTRP053 - Marketing Research and Consumer Behavior**3 units**

This course deals with the study of the planning, collection and analysis of data relevant to marketing decision making which includes the study of consumer behavior. It further deals with the function which the consumer, customer and public to the marketer through information that is used to identify and define marketing opportunities and problems; generate, refine and evaluate marketing actions; monitor marketing performance and improve understanding of marketing as a process. *Pre-req: ENTRP013; Co-req: None*

ENTRP063 - Innovation Management**3 units**

This course involves the discussion of the processes of managing an organization's innovation procedure, starting at the initial stage of ideation, to its final stage of successful implementation. It encompasses the decisions, activities and practices of devising and implementing an innovation strategy. *Pre-req: ENTRP043; Co-req: None*

ENTRP073 - Pricing and Costing**3 units**

This course introduces the students to managerial and cost accounting with special emphasis on applications to managerial decision making for strategic purposes. This course also provides the student with the basic conceptual and technical skills needed to manage financial and strategic control problems facing entrepreneurs. Areas covered include cost behavior, understanding strategy in the context of managing financial decisions, and the nature of strategic planning and managerial control. *Pre-req: ENTRP013; Co-req: None*

ENTRP083 - Human Resource Management**3 units**

This course deals with the study of different functions of Human Resource Department, different problems and issues arising from the implementation of these functions, and how these functions contribute to the effective use of people in order to attain organizational goals and enhance the personal dignity, satisfaction, and well-being of employees. *Pre-req: ENTRP013; Co-req: None*

ENTRP093 - Financial Analysis for Decision Making**3 units**

This course covers decision level responsibility for fund generation, capital structuring, and profit supervision. Emphasis is laid on the long-term financial planning, the distribution of capital, directing its use, assessing management's use of capital and taking remedial action in managing the capital. *Pre-req: ENTRP073; Co-req: None*

ENTRP103 - Business Plan Preparation**3 units**

At the end of the semester, the students should be able to prepare a business plan. The course will cover the features of a feasibility study and a business plan including marketing, operations, personnel and financial plans. The students will learn to evaluate their plans and determine their viability as resources are considered. Topics to be discussed are sourcing of financing, franchising, incubators, and venture capital, among others. The expected output from each student is a complete Business Plan. *Pre-req: ENTRP073, ENTRP083, Co-req: ENTRP123*

ENTRP113 - International Business and Trade**3 units**

This course covers topics in international trade agreements, trade policies and restrictions, counter trade, world trade, tariff, foreign exchange, and balance of payments. This course provides materials to students to enable them to capsulize their knowledge of international trade especially entered into by ASEAN member nations. The course also equips students with fundamental knowledge on trade among nations in preparation for globalization. *Pre-req: ENTRP073; Co-req: None*

ENTRP123 - Business Law and Taxation (Laws affecting Micro, Small and Medium Enterprises)**3 units**

This course covers the basic principles of law, particularly of the micro, small and medium-sized enterprises, in relation to contracts and obligations. It involves the discussion of the nature, sources, kinds and extinguishments of obligations. It will also cover provision on negotiable instruments. Further, it will provide student's knowledge on business taxation for entrepreneurs. *Pre-req: None; Co-req: ENTRP103*

ENTRP132 - Business Plan Implementation 1**2 units**

This course prepares the students to actually implement the business plan they have produced in ENTRP103 (Business Plan Preparation). The students are expected to set up the project as a business activity where actual revenue generation can be realized. This shall be offered during the first semester of their 4th year, and shall cover the business activity from registration to business start-up. *Pre-req: ENTRP103; Co-req: ENTRP133L*

ENTRP133L - Business Plan Implementation 1 Lab**3 units**

This course is the laboratory component of ENTRP132 (Business Plan Implementation 1). *Pre-req: ENTRP103; Co-req: ENTRP132*

ENTRP143 - Social Entrepreneurship**3 units**

This course introduces the use of the techniques by start-up companies and other entrepreneurs to develop, fund and implement solutions to social, cultural, or environmental issues. This concept may be applied to a variety of organizations with different sizes, aims, and beliefs. *Pre-req: ENTRP123; Co-req: None*

ENTRP152 - Business Plan Implementation 2**2 units**

This course is the continuation of the course ENTRP135B (Business Plan Implementation 1) as continuing business entity. This shall be offered during the second semester of their 4th year and shall end until the closure of the same by the concerned government agencies. *Pre-req: ENTRP132, ENTRP133L; Co-req: ENTRP153L*

ENTRP153L - Business Plan Implementation 2 Lab**3 units**

This course is the laboratory component of ENTRP152 (Business Plan Implementation 2). *Pre-req: ENTRP132, ENTRP133L; Co-req: ENTRP152*

ENTRP-BP1 - Business Proposal 1**3 units**

This course allows students to pursue a business project proposal for the Food Industry. The business model can be a manufacturing, service, export-import, franchising and distributorship structure. *Pre-req: ENTRP043, ENTRP053; Co-req: None*

ENTRP-BP2 - Business Proposal 2**3 units**

This course allows students to pursue a business project proposal for Agribusiness. The business model can be a manufacturing, service, export-import, franchising and distributorship structure. *Pre-req: ENTRP-BP1; Co-req: None*

ENTRP-BP3 - Business Proposal 3**3 units**

This course allows students to pursue a business project proposal for the Health and Wellness Industry. The business model can be a manufacturing, service, export-import, franchising and distributorship structure. *Pre-req: ENTRP-BP2; Co-req: None*

ENTRP-BP4 - Business Proposal 4**3 units**

This course allows students to pursue a business project proposal for the Hospitality and Tourism Industry. The business model can be a manufacturing, service, export-import, franchising and distributorship structure. *Pre-req: ENTRP-BP3; Co-req: None*

ENTRP-ELEC1 - Entrepreneurial Leadership in an Organization**3 units**

This course is designed to discuss the use proactive entrepreneurial behavior to organize a group of people to achieve a common goal by optimizing risk, innovating to take advantage of opportunities, taking personal responsibility and managing change within a dynamic environment for the benefit of an organization. *Pre-req: ENTRP013; Co-req: None*

ENTRP-ELEC2 - Supply Chain Management**3 units**

The course involves the discussion of the management of the flow of goods and services, involves the movement and storage of raw materials, of work-in-process inventory, and of finished goods from point of origin to point of consumption. *Pre-req: ENTRP013; Co-req: None*

ENTRP-ELEC3 - Wholesale and Retail Sales Management**3 units**

This course will discuss issues and concerns related to wholesale and retail sales. *Pre-req: ENTRP053, ENTRP093; Co-req: None*

ENTRP-ELEC4 - E-Commerce**3 units**

This course aims to teach the students the basics of conducting business and commerce using internet facilities and network. It introduces students to the tools and systems and skills needed to enable them to conduct electronic business and commerce. *Pre-req: ENTRP013; Co-req: None*

IV. ENGINEERING AND ARCHITECTURE PROGRAM**A. BASIC ENGINEERING COURSES****DRW001L - Engineering Drawing and Plans****1 unit**

This laboratory course is designed to develop abilities needed to develop, accurately locate and interpret dimensions on and read engineering drawings. *Pre-req: None; Co-req: None*

DRW021L - Engineering Drawing**1 unit**

The course deals with the practices and techniques of graphical communication; application of drafting instruments, lettering scale, and units of measure; descriptive geometry; orthographic projections; auxiliary views; dimensioning; sectional views; pictorial

drawings; requirements of engineering working drawings; and assembly and exploded detailed drawings. *Pre-req: None; Co-req: None*

DRW051L - Computer-Aided Drafting

1 unit

The course deals with the concepts of computer-aided drafting (CAD); introduction to the CAD environment; terminologies; and the general operating procedures and techniques in entering and executing basic CAD commands. *Pre-req: DRW001L (for CE only), DRW021L (for ME only); Co-req: None*

ENGG002 - Dynamics of Rigid Bodies

2 units

The course deals with the forces acting on bodies in motion. It includes kinematics of machines and kinetics of particles of rigid bodies such as rectilinear and curvilinear translation and rotational motions. *Pre-req: ENGG003; Co-req: ENGG063*

ENGG003 - Statics of Rigid Bodies

3 units

The course deals with the forces acting on non-moving bodies. It covers concurrent and non-concurrent forces, operation with the free-body concepts, equilibrium of coplanar and non-coplanar systems, friction forces, centroids and moments of inertia. *Pre-req: MATH153B, Phy083, Phy081L; Co-req: None*

ENGG013 - Engineering Mechanics

3 units

This course deals with force, moment, and motion concepts. Newton's Laws of Motion. Analysis of particles and rigid bodies in static and dynamic equilibrium using vector mechanics and energy and momentum methods. Geometric properties of lines, areas, and volumes. *Pre-req: MATH153B (for IE only), PHY083, PHY081L; Co-req: None*

ENGG042/ENGG043 - Materials Science and Engineering

2/3 units

The course deals with the properties of engineering materials including mechanical, acoustical, electrical, magnetic, chemical, optical and thermal properties. *Pre-req: ENGG062, CHM083, CHM081L (for EE & EcE only); Co-req: None*

ENGG062/ENGG063 - Fundamentals of Deformable Bodies/Mechanics of Deformable Bodies

2/3 units

ENGG063A - Strength of Materials

3 units

The course deals with the study of strength of materials where the understanding of how bodies and materials respond to applied loads is the main emphasis. The course covers the fundamental concepts of stresses and strains experienced and/or developed by different materials in their loaded state and subjected to different conditions of constraint that includes axial stress, shearing stress, bearing stress, torsion, flexural stress, and stress-strain relationships. *Pre-req: ENGG013; Co-req: None*

ENGG064 - Mechanics of Deformable Bodies

4 units

Axial stress and strain; stresses for torsion and bending; combined stresses; beam deflections; indeterminate beams; and elastic instability. *Pre-req: ENGG003; Co-req: ENGG002*

ENGG072/ENGG073 – Thermodynamics

2/3 units

A course dealing with the thermodynamic properties of pure substances, ideal and real gases and the study and application of the laws of thermodynamics in the analysis of processes and cycles. It includes introduction to vapor and gas cycles. *Pre-req: PHY083, PHY081L; MATH223 (for IE only); Co-req: None*

ENGG083 - Environmental Science and Engineering

3 units

This course deals with the ecological framework of sustainable development; pollution environments: water, air, and solid; waste treatment processes, disposal, and management; government legislation, rules, and regulation related to the environment and waste management; and environmental management system.

The course will discuss the Interrelationships among components of the natural world; environmental problems, their causes, associated risks, preventive measures and alternative solutions. *Pre-req: CHM083, CHM081L (for IE only); ENGG043 (for ECE only); Co-req: None*

ENGG092/ENGG093 - Fluid Mechanics

2/3 units

The course deals with the nature and physical properties of fluids as well as the identification and measurement of fluid properties. It emphasizes the application of conservation laws on mass, energy and momentum to fluid systems either incompressible or compressible flow, inviscid or viscous flow as well as head loss calculation on pipes and fittings. *Pre-req: PHY083, PHY081L; ME043D (for ME only); Co-req: None*

ENGG103 - Engineering Economics

3 units

This course is an introduction to the concepts of the time value of money and equivalence; basic economy study methods; decisions under certainty; decisions recognizing risk; and decisions admitting uncertainty. *Pre-req: ACT043D, ECON013 (for IE only); GEC033 (for EE only); MATH323 (for EE, CpE, EcE only); Co-req: ME-PS1 (for ME only)*

ENGG112 - Engineering Management**2 units**

This course focuses on decision-making; the functions of management; managing production and service operations; managing the marketing function; and managing the finance function. *Pre-req: GEC073 (for ME only); GEC063, ENGG103 (for EcE only); Co-req: None*

ENGG183 - Basic Occupational Health and Safety**3 units**

This course tackles key Occupational Health and Safety (OSH) concepts, principles and practices that are foundational knowledge requirements applicable in almost all industries. Specifically, it assists learners in identifying the key elements in the OSH situation both here and abroad; determine existing and potential safety and health hazards; identify the range of control measures; discuss pertinent provisions of Philippine laws that refer to occupational safety and health; explain key principles in effectively communicating OSH; identify components of effective OSH programs and demonstrate some skills in identifying hazards and corresponding control measures at the workplace. *Pre-req: IE213, IE211L (for IE only); GEC013, GEC043 (for ME only); GEC073 (for EE only); ENGG103 (for CpE only); Co-req: None*

ENGG193 - Technopreneurship**3 units**

This is a course on entrepreneurship with emphasis on the technology industry. The course introduces specific issues and characteristics found in the technology industry like history of technology, technology organization, marketing technology, financing technology ventures, governmental and legal factors like patents and copyright and technology strategies. The course also covers the value of professional and life skills in entrepreneurial thought, investment decisions, and actions that students can utilize in starting technology companies or executing R&D projects in companies. *Pre-req: ENGG103 (for IE, ME, EcE only); ENGG183 (for CpE only) Co-req: None*

ENGG223 - Fundamentals of Mixed Signals and Sensors**3 units**

This course covers operational amplifiers, signal converters, power switching devices and the construction and operation of sensors and transducers for converting physical parameters into electrical signals and vice-versa. The course focuses on the application of these devices in developing signal conversion circuits that allows measurement, processing and control of physical parameters by digital processing systems such as a finite state machine or a digital computer. Topics on actuators are also included. *Pre-req: CpE053, CpE051L; Co-req: None*

ENGG253 - Engineering Utilities 1**3 units**

The course focuses on the environmental systems in buildings. Lecture discussions include building electrical systems, natural and artificial lighting, and building telecommunications. Reducing operational loads and integrating high performance energy systems into buildings offers solutions towards achieving a sustainable and secure energy future. Engineers must understand the interrelationship between a building and its subsystems, and need sufficient knowledge of building systems and design alternatives to recommend appropriate solutions that suit the site, climate, building type, and occupants. They must coordinate the work of the engineering disciplines that carry the sustainability concept forward through building design, construction, commissioning, operation and, ultimately, demolition, recycling and reuse. *Pre-req: PHY083, PHY081L; Co-req: ENGG263*

ENGG263 - Engineering Utilities 2**3 units**

The course focuses on the mechanical systems, fire protection systems, sanitary/ plumbing systems, and acoustics in buildings. Lecture discussions include HVAC systems, acoustics, vertical transportation and fire protection. Reducing operational loads and integrating high performance energy systems into buildings offers solutions towards achieving a sustainable and secure energy future. Engineers must understand the interrelationship between a building and its subsystems, and need sufficient knowledge of building systems and design alternatives to recommend appropriate solutions that suit the site, climate, building type, and occupants. They must coordinate the work of the engineering disciplines that carry the sustainability concept forward through building design, construction, commissioning, operation and, ultimately, demolition, recycling and reuse. *Pre-req: PHY083, PHY081L; Co-req: ENGG253*

ENGG272/ENGG271L - Surveying**2/1 unit**

The course covers the theory and use of surveying instruments including tape, transit, level and stadia; methods of running transverse and leveling. *Pre-req: MATH183*

ENGG283 - Theory of Structures**3 units**

The course is about the determination of values of shear, moments and deflections of statically determinate & indeterminate beams. *Pre-req: ENGG063A*

ENGG293 - Steel and Timber Design**3 units**

The course is about the structural design and investigation of simple elements of structural timber and steel. *Pre-req: ENGG283*

ENGG303 - Architectural Structures**3 units**

The course is about the design and investigation of simple reinforced concrete structures. *Pre-req: ENGG293*

GEO012 - Geology for Civil Engineers**2 units**

Fundamentals of geology applied to civil engineering problems. Topics include rock and mineral types, soil properties, rock mechanics, geologic structures, active tectonics and earthquake hazards, slope stability and landslides, groundwater, rivers and flood hazards. Team projects include engineering geology case studies and site assessment investigations. *Pre-req: CHM083, CHM081L; Co-req: None*

MATH153A - Calculus 1**3 units**

The course covers the basic concepts of calculus such as limits, continuity and differentiability of functions; differentiation of algebraic and transcendental functions involving one or more variables; applications of differential calculus to problems on optimization, rates of change, related rates, tangents and normals, and approximations; partial differentiation and transcendental curve tracing. *Pre-req: None; Co-req: None*

MATH153B - Calculus 2**3 units**

The course covers the concept of integration and its application to physical problems such as evaluation of areas, volumes of revolution, force, and work; fundamental formulas and various techniques of integration applied to both single variable and multi-variable functions; tracing of functions of two variables. It includes anti-derivatives, integration methods, definite integrals, multiple integrals, infinite series, and their applications.

Pre-req: MATH153A; Co-req: PHY083, PHY081L (for EcE only)

MATH183 - Differential and Integral Calculus**3 units**

The course covers the basic concepts of calculus such as limits, continuity and differentiability of functions; differentiation of algebraic and transcendental functions involving one or more variables; applications of differential calculus to problems on optimization, rates of change, related rates, tangents and normals, and approximations; partial differentiation and transcendental curve tracing. *Pre-req: MATH212*

MATH212 - Solid Mensuration**2 units**

This deals with the concept of lines and planes; Cavalieri's and Volume theorems; formulas for areas of plane figures, volumes for solids; volumes and surfaces areas for spheres, pyramids, and cones; zone, sector and segment of a sphere; theorem of Pappus. *Pre-req: None*

MATH223 - Differential Equations**3 units**

It covers first order differential equations, nth order linear differential equations and systems of first order linear differential equations. It also introduces the concept of Laplace Transforms in solving differential equations. The students are expected to be able to recognize different kinds of differential equations, determine the existence and uniqueness of solution, select the appropriate methods of solution and interpret the obtained solution. Students are also expected to relate differential equations to various practical engineering and scientific problems as well as employ computer technology in solving and verifying solutions. *Pre-req: MATH153B; Co-req: None*

MATH283 - Discrete Mathematics**3 units**

This course deals with logic, sets, proofs, growth of functions, theory of numbers, counting techniques, trees and graph theory. *Pre-req: MATH153A; Co-req: None*

MATH302 - Numerical Methods and Analysis**2 units**

This course covers the concepts of numerical analysis and computer software tools in dealing with engineering problems. It includes techniques in finding the roots of an equation, solving systems of linear and non-linear equations, eigenvalue problems, polynomial approximation and interpolation, ordinary and partial differential equations. The Monte-Carlo method, simulation, error propagation and analysis, the methods of least squares and goodness-of-fit tests are also covered. *Pre-req: EE323; Co req: MATH301L*

MATH301L - Numerical Methods and Analysis Lab**1 unit**

A laboratory component of MATH302 (Numerical Methods and Analysis). *Pre-req: EE323; Co-req: MATH302*

MATH303 - Numerical Methods**3 units**

This course covers the concepts of numerical analysis and computer software tools in dealing with engineering problems. It includes techniques in finding the roots of an equation, solving systems of linear and non-linear equations, eigenvalue problems, polynomial approximation and interpolation, ordinary and partial differential equations. The Monte-Carlo method, simulation, error propagation and analysis, the methods of least squares and goodness-of-fit tests are also discussed. *Pre-req: MATH223, MATH283; Co-req: None*

MATH323 - Engineering Data Analysis**3 units**

This course introduces different methods of data collection and the suitability of using a particular method for a given situation. It includes a coverage and discussion of the relationship of probability to statistics, probability distributions of random variables and their uses, linear functions of random variables within the context of their application to data analysis and inference, estimation techniques for unknown parameters, and hypothesis testing used in making inferences from sample to population, inference for

regression parameters and build models for estimating means and predicting future values of key variables under study. Statistically based experimental design techniques and analysis of outcomes of experiments are discussed with the aid of statistical software. *Pre-req: MATH153A (for EE & CpE only); Co-req: None*

MATH332/331L - Numerical Solutions to CE Problems

2/1 unit

The course provides background on numerical analysis needed to solve civil engineering problems numerically when their analytical solution is either not available or difficult to obtain. MATLAB programming environment or its equivalent will be introduced and used in the course. *Pre-req: MATH223*

MATHECE253 - Advanced Engineering Mathematics for ECE

3 units

A study of selected topics in mathematics and their applications in advanced courses in engineering and other allied sciences. It covers the study of Complex numbers and complex variables, Laplace and Inverse Laplace Transforms, Power series, Fourier series, Fourier Transforms, z-transforms, power series solution of ordinary differential equations, and partial differential equations. *Pre-req: MATH223; Co-req: MATHECE251L*

MATHECE251L - Advanced Engineering Mathematics for ECE Lab

1 unit

The laboratory component of MATHECE253 (Advanced Engineering Mathematics for ECE). *Pre-req: MATH223; Co-req: MATHECE253*

MATHME253 - Advanced Engineering Math for ME

3 units

This is the numerical techniques used in engineering applications such as finding roots of equations, curve fitting, interpolation, numerical differentiation and integration, systems of linear algebraic equations, solution to non-linear equations, and solutions to ordinary differential equations. *Pre-req: MATH223; Co-req: None*

CHM083 - Chemistry for Engineers

3 units

Basic concepts of matter and its classification; mass relationships in chemical reactions; properties of gases, liquids, and solids; concepts of thermochemistry; quantum theory and electronic behavior; periodic relationship of elements in the periodic table; intramolecular forces; and solutions. *Pre-req: None; Co-req: CHM081L*

CHM081L - Chemistry for Engineers Lab

1 unit

A fundamental laboratory course designed to relate and apply the principles and theories in chemistry to engineering practices. It is a combination of experimental and calculation laboratory. *Pre-req: None Co-req: CHM083*

PHY083 - Physics for Engineers

3 units

This course covers vectors; kinematics; dynamics; work, energy, and power; impulse and momentum; rotation; dynamics of rotation; elasticity; and oscillation. Fluids; thermal expansion, thermal stress; heat transfer; calorimetry; waves; electrostatics; electricity; magnetism; optics; image formation by plane and curved mirrors; and image formation by thin lenses. *Pre-req: MATH153A; Co-req: MATH153B (for IE & EcE only), PHY081L*

PHY081L - Physics for Engineers Lab

1 unit

A fundamental laboratory course designed to provide opportunity to observe and apply the principles and theories taught in PHY083 (Physics for Engineers). *Pre-req: MATH153A; Co-req: MATH153B (for IE & EcE only), PHY083*

PHY103 – Physics

3 units

Thermodynamics (1st & 2nd Law, basic concepts on heat engine and refrigerators), Energy Conversion (EM Induction, magnetic flux, generators), Semiconductor Physics. *Pre-req: PHY083, PHY081L; Co-req: PHY101L*

PHY101L - Physics Lab

1 unit

A laboratory component of PHY103 (Physics). *Pre-req: PHY083, PHY081L; Co-req: PHY103*

CoENG001L - Computer Fundamentals and Programming Lab

1 unit

This course tackles the basic information technology concept: the computer and computing system, algorithms and flowcharts, basic DOS commands, Number Systems, the Internet, and computer solutions to engineering problems. It also covers advanced activities in MS Word, PowerPoint and Excel applications. Concepts of basic programming using a high-level language and C programming in developing and computing source codes for the programming exercises. *Pre-req: GEC013 (for EE only); None; Co-req: None*

CoENG002L - Computer Fundamentals and Programming Lab

2 units

Introduces the fundamental concepts of programming from an object oriented perspective. Topics are drawn from classes and objects, abstraction, encapsulation, data types, calling methods and passing parameters, decisions, loops, arrays and collections, documentation, testing and debugging, exceptions, design issues, inheritance, and polymorphic variables and methods. The course emphasizes modern software engineering and design principles. *Pre-req: None; Co-req: None*

B. INDUSTRIAL ENGINEERING PROFESSIONAL COURSES

IE013A - Statistical Analysis for Industrial Engineers 1

3 units

Basic statistical concepts and principles, probability distributions of random variables and their uses, linear functions of random variables and their applications to data analysis and inference. Estimation techniques for unknown parameters; hypotheses testing, and non-parametric tests. *Pre-req: MATH153B; Co-req: None*

IE013B - Statistical Analysis for Industrial Engineers 2

3 units

This course deals with regression, correlation, analysis of variance (ANOVA), design of experiments and their applications in Industrial Engineering. *Pre-req: IE013A; Co-req: None*

IE032A - Ergonomics 1

2 units

This course deals Visual Sense. Auditory sense. Vestibular sense. Anthropometry. Biomechanics. Musculoskeletal disorders. Manual material handling. Workstation design. *Pre-req: IE082A, IE081A-L, IE213, IE211L, Co-req IE031A-L*

IE031A-L- Ergonomics 1 Lab

1 unit

The laboratory component of IE032A (Ergonomics 1). *Pre-req: IE082A, IE081A-L, IE213, IE211L, Co-req IE032*

IE032B - Ergonomics 2

2 units

This course deals signal detection theory, vigilance, information processing, learning, memory, mental workload, visual and auditory displays. Usability engineering. Relation of cognitive limitations to the design of effective products and interfaces. *Pre-req: IE032A, IE031A-L; Co-req: IE031B-L*

IE031B-L - Ergonomics 2 Lab

1 unit

The laboratory component of IE032B (Ergonomics 2). *Pre-req: IE032A, IE031A-L; Co-req: IE032B*

IE082A - Industrial Materials and Processes

2 units

This course deals with the Industrial materials and processes and their effects on production system decisions. Metals, plastics, glass and ceramics, elastomers, wood, pulp, and other common engineering materials, their uses, and their production processes. *Pre-req: CHM083, CHM081L, DRW051L, PHY083, PHY081L; Co-req: None*

IE081A-L - Industrial Materials and Processes Lab

1 unit

The laboratory component of IE082A (Industrial Materials and Processes). *Pre-req: CHM083, CHM081L, DRW051L, PHY083, PHY081L; Co-req: None*

IE113C - Operations Research 1

3 units

This course covers the development and application of fundamental deterministic optimization models and various solution methods. Quantitative modeling, formulation, analysis and interpretation of linear integer and non-integer models and network flow problems. *Pre-req: IE213, IE211L, IE253; Co-req: None*

IE113D - Operations Research 2

3 units

This course focuses on concept and solution approaches of advanced optimization models and their application to engineering. Goal programming, dynamic programming, decision theory, game theory, Markov models and queuing theory. *Pre-req: IE113C; Co-req: None*

IE203 - Industrial Organization and Management

3 units

This course deals with decision-making; the functions of management; managing production and service operations; managing the marketing function; and managing the finance function. *Pre-req: IE213, IE211L; Co-req: None*

IE213 - Work Study and Measurement

3 units

This course deals with the process charting and analysis. Work sampling. Time study. Computerized WM. PMTS: MTM, Work factor and Standard data. Wage payment and incentive plans. *Pre-req: IE082A, IE081A-L, IE013A; Co-req: IE211L*

IE211L - Work Study and Measurement Lab

1 unit

The laboratory component of IE213 (Work Study and Measurement). *Pre-req: IE082A, IE081A-L, IE013A; Co-req: IE213*

IE223 - Quality Management System

3 units

It deals with the principles and practices of quality management systems (QMS); tools and techniques utilized in QMS. *Pre-req: IE213, IE211L; Co-req: None*

- IE233 - Systems Engineering** **3 units**
 Systems Engineering (Lecture) deals with the concepts, tools, techniques and activities of systems analysis and design (situation appraisal, problem analysis, system definition, evaluation of alternatives, system representation, system report) and basic research methods and analysis. *Pre-req: IE243, IE241L; Co-req: None*
- IE243 - Operations Management** **3 units**
 Production control, inventory policy, facilities planning, methods improvement. Technological assessment and revenue management. *Pre-req: IE113C, IE223; Co-req: IE241L*
- IE241L - Operations Management Lab** **1 unit**
 The laboratory component of IE243 (Operation Management). *Pre-req: IE113C, IE223; Co-req: IE243*
- IE253 - Advanced Mathematics for Industrial Engineering** **3 units**
 The course focuses on matrices, determinants, systems of linear and nonlinear equations, elements of error analysis, real roots of an equation, polynomial approximation by finite difference and least squares method, and numerical solution on system of linear and nonlinear equations. *Pre-req: MATH223; Co-req: None*
- IE263 - Supply Chain Management** **3 units**
 Basic concepts in managing the complete flow of materials in a supply chain from suppliers to customers. Design, planning, execution, monitoring, and control in supply chain management. *Pre-req: IE032B, IE113D, IE243, IE241L; Co-req: None*
- IE273 - Information Systems** **3 units**
 This course tackles conceptualization, design, development, implementation and maintenance of realistic management information system tailored to the specific needs of the organization, both for commercial and non-commercial applications as well as the application of modern technology to MIS. *Pre-req: CoENG002L; Co-req: None*
- IE-CP - IE Capstone Project** **1 unit**
 Capstone project will demonstrate the student's research or design ability. The project may be an industrial engineering research or a design of a system, component, or process. *Pre-req: IE032B, IE031B-L, IELEC-3; Co-req: IE-CP-L*
- IE-CP-L - IE Capstone Project Lab** **2 units**
 The course is the laboratory component of IE-CP (IE Capstone Project). *Pre-req: IE032B, IE031B-L, IELEC-3; Co-req: IE-CP*
- IE-PF - Project Feasibility** **2 units**
 This first phase of the course deals with the preparation of a project feasibility study, utilizing and refining principles, tools and methodologies in management organization, marketing, technical, financial, social economic aspects of business enterprises as well as the application and integration of these various disciplines in the development, rehabilitation and liquidation of business ventures and projects. This requires the defense of the project proposal. The second phase includes the enhancement, completion, and final defense of the proposed project. *Pre-req: ACT043D, Co-req IE-PF-L*
- IE-PF-L - Project Feasibility Lab** **1 unit**
 The laboratory component of IE-PF (Project Feasibility). *Pre-req: ACT043D, Co-req IE-PF*
- IE-PRC6 - Practicum (600hrs)** **6 units**
 This course aims to acquaint the students with the real work situation in the business/industrial world, as well as the responsibilities, functions and obligations of an industrial engineer. *Pre-req: EE013B, ENGG193, IE233, IE263, IE273, IE-CP, IE-CP-L, IE-PF, IE-PF-L; Co-req: None*
- ACT033D - Financial Accounting** **3 units**
 The course deals with the accounting concepts and principles applied to service, merchandizing and manufacturing operations; partnerships and corporations; the analysis, interpretation and use of accounting data for management. *Pre-req: MATH153D; Co-req: None*
- ACT043D - Managerial Accounting** **3 units**
 The course deals with the uses of accounting information for managerial planning and control. It includes concepts, principles, and procedures in basic accounting, preparation of balance sheet and income statement, CGS statement, statement of changes in financial position, and financial statement analysis. *Pre-req: ACT033D; Co-req: None*
- ECON013 - Principles of Economics** **3 units**
 This course deals with the introduction to economic theory and applications. *Pre-req: None; Co-req: None*

IElec-1 - IE Elective 1**3 units**

This course is designed to familiarize IE students with the innovation field of knowledge. The course is a capstone course that integrates prior learning from operations management functions, PLAN, SOURCE, MAKE, DELIVER, this course will cover the conception of the product - DEVELOP. It will help the students in understanding on how new products are conceptualized, developed, and launched to the market. Fundamental issues in the development process of a product are to be discussed; practical examples and case studies will be tackled in depth. *Pre-req: IE213, IE211L, IE253; Co-req: None*

IElec-2 - IE Elective 2**3 units**

This course intends to introduce the principles of lean manufacturing, its tools and methodologies. This further aims to discuss the applications and constraints being encountered in the actual practice concepts. *Pre-req: IElec-1, Co-req: None*

IElec-3 - IE Elective 3**3 units**

The course deals with the Just-In-Time (JIT) approach to total productive maintenance with inclusion of reliability engineering as part of productive operations in manufacturing / service system(s). *Pre-req: IElec-2; Co-req: None*

C. MECHANICAL ENGINEERING PROFESSIONAL COURSES**ME001-18 - Orientation to ME****1 unit**

The course introduces Mechanical Engineering as a discipline and its various applications. It also discusses ME as a profession with emphasis on the requirements for professional practice as well as career opportunities. The course also provides venues to develop engineering skills in order to succeed in engineering studies. *Pre-req: None; Co-req: None*

ME001L - Workshop Theory and Practice Lab**1 unit**

The course deals with the basic principles of machine shop practices. It includes workshop safety and organization; simple workshop measuring instruments, hand tools, fitting bench work, bench drill and bench grinder; sheet metal working; principles of welding processes; welding metallurgy; joining processes; testing and inspection of welds; foundry and metal casting. *Pre-req: None; Co-req: None*

ME002L - Machine Shop Theory and Practice Lab**2 units**

The course deals with use and operations of machines such as lathes, shapers, planers, drilling and boring machines, milling machine, cutters, grinding machines, machine tools and accessories. It covers technological advances in metal working and new innovations in machine shop. *Pre-req: ME001L; Co-req: None*

ME032C - Machine Elements**2 units**

The course deals with the study of mechanisms disregarding the forces and energies that causes the motion. It provides emphasis on the analytical and graphical study of displacement, velocity and acceleration. This also includes the study of the elements of mechanisms such as gears, train, rolling bodies, belt and pulleys, cams and followers. *Pre-req: Drw051L, Phy083, Phy081L; Co-req: ME031C-L*

ME031C-L - Machine Elements Lab**1 unit**

The laboratory component of ME032C (Machine Elements). *Pre-req: Drw051L, Phy083, Phy081L; Co-req: ME032C*

ME043C - Thermodynamics I**3 units**

A course dealing with the thermodynamic properties of pure substances, ideal and real gases and the study and application of the laws of thermodynamics in the analysis of processes and cycles. It includes introduction to vapor and gas cycles. *Pre-req: Phy083, Phy081L; Co-req: None*

ME043D - Thermodynamics II**3 units**

This course is aimed to further enhance the student's knowledge regarding the principles of Thermodynamics by using these principles in practical application specifically in the field of power generation. This includes study of real gases, properties of gas and vapor mixtures and introduction to reactive systems. *Pre-req: ME043C; Co-req: None*

ME052B - Materials Science and Engineering for ME**2 units**

The course deals with the properties of engineering materials including mechanical, acoustical, electrical, magnetic, chemical, optical and thermal properties. Laboratory experiments using equipment include tension, compression, bending, shear, torsion and impact tests. *Pre-req: ENGG063; Co-req: ME051B-L*

ME051B-L - Materials Science and Engineering for ME Lab**1 unit**

The laboratory component of ME052B (Materials Science and Engineering for ME) where properties of engineering materials are applied. *Pre-req: ENGG063; Co-req: ME052B*

- ME063C - Machine Design I** **3 units**
 The course deals with various mechanical properties of engineering materials in lieu of the determination of design factor and design stresses. It includes the analyses of simple, variable and combined stresses applied to different mechanical elements such as shafts, mechanical springs. *Pre-req: ENGG063, ME032C, ME031C-L; Co-req: None*
- ME062D - Machine Design II** **2 units**
 This course is a continuation of ME063C (Machine Design I) which involves the analysis of simple, variable and combined stresses applied to the different machine elements such as flywheels, brakes and clutches, bearings, flexible power transmissions such as belts, wire ropes and chains. It also includes analysis and synthesis of machineries which consist of two or more machine elements preferably using an application software. *Pre-req: ME063C; Co-req: ME061D-L*
- ME061D-L - Machine Design II Lab** **1 unit**
 The laboratory component of ME062D (Machine Design II). *Pre-req: ME063C; Co-req: ME062D*
- ME071B-L1 - Mechanical Engineering Lab I** **1 unit**
 The course involves the study and use of devices and instruments to measure pressure, temperature level, flow, speed, weight, area, volume, viscosity, steam quality, and products of combustion. It also includes the study and analysis of fuels and lubricants. *Pre-req: ME002L; Co-req: None*
- ME072B-L2 - Mechanical Engineering Lab II** **2 units**
 The course involves the study and test of mechanical engineering equipment and machineries such as steam generator, steam turbine, heat exchangers, internal and external combustion engines, pumps, fans, blowers, and compressors. *Pre-req: ME071B-L1; Co-req: None*
- ME072B-L3 - Mechanical Engineering Lab III** **2 units**
 The course deals with the performance analysis and evaluation of refrigeration, air conditioning and ventilation systems and power plants. *Pre-req: ME072B-L2, ME143C; Co-req: ME193, ME191L*
- ME082B - Combustion Engineering** **2 units**
 The course deals with principles involved in combustion, carburetion and fuel injection; fundamentals and basic principles of combustion processes, compression and combustion charts, fuels, (manifolds) engine components, engine performance and combustion engine design. *Pre-req: ME092B; Co-req: None*
- ME092B - Heat Transfer** **2 units**
 The course deals with the different modes of heat and mass transfer, laws governing conduction, convection and radiation and its application to the design of common heat exchangers such as condenser, Cooling coils and evaporators; and the environmental impact of their operation. *Pre-req: ME043C; Co-req: None*
- ME101A - Methods of Research for ME** **1 unit**
 This course covers the study of the methodologies used in conducting an engineering research. It includes the types and application of research, characteristics of a good research, research design, research instruments and data gathering procedures. It also deals with the study of writing a research proposal and various formats. *Pre-req: None; Co-req: ME-PS1*
- ME113B - Refrigeration Systems** **3 units**
 The course is designed to provide a thorough foundation of the thermodynamic principles and components of mechanical refrigeration systems; cycles and associated equipment, and the effect of their operation on the environment. *Pre-req: ME092B; Co-req: None*
- ME123A - Fluid Machineries** **3 units**
 The course is a comprehensive study of the principles and theories in the proper operation, selection and application of the most commonly used fluid machineries such as pumps, fans, blowers, compressors and turbines. *Pre-req: ENGG093; Co-req: ME-PS1*
- ME132B - Vibration Engineering** **2 units**
 This course deals with the fundamental concepts of vibration as it effects operation and performance of machine components. It involves modeling of mechanical systems, derivation of the differential equations for such systems and its varying solutions (responses) based on different excitations. Emphases will be on analysis, design, measurement, damping and computational aspects. *Pre-req: MATHME253; Co-req: None*
- ME143C - Air Conditioning and Ventilation Systems** **3 units**
 The course deals with the psychometric properties of air; factors affecting human comfort; air distribution and basic duct design; drying, heating and ventilation; cooling load calculations; and, design of an air conditioning system and its components. *Pre-req: ME113B; Co-req: None*

- ME153A - Industrial Plant Engineering and Design** **3 units**
 A study of mechanical engineering theories, equipment and systems that are needed in the operation of an industrial/ manufacturing plant. *Pre-req: ENGG093, ME071B-L1, ME092B; Co-req: ME151A-L*
- ME151A-L - Industrial Plant Engineering and Design Lab** **1 unit**
 The laboratory component of ME153A (Industrial Plant Engineering and Design) where mechanical engineering theories, equipment, and systems are applied. *Pre-req: ENGG093, ME071B-L1, ME092B; Co-req: ME153A*
- ME182A - ME Laws, Ethics, Codes, and Standards** **2 units**
 The course deals with the study of Mechanical Engineering law, contracts, codes of ethics and ethical issues in the practice of engineering. Familiarization with the technical codes and standards are included. *Pre-req: ENGG193; Co-req: None*
- ME193 - Power Plant Design w/ Renewable Energy** **3 units**
 The course deals with the study of the fundamental concepts in the design and installation of typical power plants such as steam power plant, diesel electric plant, geothermal power plant as well as other generating plants. It includes the discussion of renewable energies such as solar, wind, tidal, hydro-electric, bio-mass, OTEC and others. *Pre-req: ME153A, ME151A-L; Co-req: ME072B-L3, ME191L*
- ME191-L - Power Plant Design w/ Renewable Energy Lab** **1 unit**
 The laboratory component of ME193 (Power Plant Design w/ Renewable Energy) where the fundamental concepts in the design and installation of typical power plants are applied. *Pre-req: ME153A, ME151A-L; Co-req: ME072B-L3, ME193*
- ME221 - Manufacturing and Industrial Processes w/ Plant Visits** **1 unit**
 A course dealing with the study of industrial and manufacturing processes and the equipment involved in the processes. *Pre-req: ME153A, ME151A-L; Co-req: ME221L*
- ME221L - Manufacturing and Industrial Processes w/ Plant Visits Lab** **1 unit**
 The laboratory component of ME222 (Manufacturing and Industrial Processes w/ Plant Visits) which includes plant visit to various manufacturing and power plants. *Pre-req: ME153A, ME151A-L; Co-req: ME222*
- ME262 - Control Engineering** **2 units**
 Introduction to linear control systems, modeling of physical systems, feedback control systems, time-and-frequency domain analysis of control systems, stability of control systems, and applications. *Pre-req: EE062B, EE061B-L, ME072B-L2; Co-req: ME261L*
- ME261L - Control Engineering Lab** **1 unit**
 The laboratory component of ME262 (Control Engineering). *Pre-req: EE062B, EE061B-L, ME072B-L2; Co-req: ME262*
- ME-PS1 - ME Project Study I** **1 unit**
 The first phase of mechanical engineering project study involving writing and defense of the project proposal. *Pre-req: ME063C, ME113B; Co-req: ENGG103, ME101A, ME123A; Co-req: None*
- ME-PS2 - ME Project Study II** **1 unit**
 The second phase of mechanical engineering project study which includes the completion and final defense of the approved project. *Pre-req: ME-PS1; Co-req: None*
- ME-ELEC1 - Solar Energy and Wind Energy Utilization** **3 units**
 Introduction to solar energy and its conversion for use, fundamental of solar collection and thermal conversion, solar heating and cooling systems, conversion of wind energy to mechanical, siting of wind. *Pre-req: ME132B; Co-req: None*
- ME-ELEC2 - Energy Management System in Building** **3 units**
 Energy audit program for building and facilities initiating energy management program, guidelines for methods of reducing energy in each are in building. Design, installation, utilization, maintenance and modernization of the mechanical systems in the existing building, utilization of microcomputer in the energy management and automatic control air conditioning and ventilation systems in the building and case study energy savings. *Pre-req: ME-ELEC1; Co-req: None*

D. ELECTRICAL ENGINEERING PROFESSIONAL COURSES

- EE012B - Basic Electrical Engineering** **2 units**
 This course covers the fundamentals of both DC and AC circuits. It covers principles, basic laws and theorems used in analyzing electrical circuits in both direct current and alternating current conditions. *Pre-req: Phy083, Phy081L; Co-req: EE011B-L*

- EE011B-L - Basic Electrical Engineering Lab** **1 unit**
 The laboratory component of EE012B (Basic Electrical Engineering) where fundamentals of DC and AC circuits are applied. *Pre-req: Phy083, Phy081L; Co-req: EE012B*
- EE013B - Elementary Electrical Engineering** **3 units**
 This course covers the principles, basic laws and theorems used in analyzing electrical circuits in both direct current and alternating current conditions. *Pre-req: PHY083, PHY081L; Co-req: None*
- EE022C - DC and AC Machinery** **2 units**
 The course deals with performance characteristics and operation including losses and efficiencies of DC and AC machines such as alternators, induction/synchronous motors, synchronous converters and transformers. It includes demonstrations and laboratory experiments. *Pre-req: EE012B, EE011B-L; Co-req: EE021C-L*
- EE021C-L - DC and AC Machinery Lab** **1 unit**
 The laboratory component of EE022C (DC and AC Machinery) where performance characteristics and operation of DC and AC machines are applied. *Pre-req: EE012B, EE011B-L; Co-req: EE022C*
- EE033A - Electrical Circuits I** **3 units**
 The course covers nodal and mesh analysis; application of network theorems in circuit analysis; analysis of circuits with controlled sources and ideal op-amps; fundamentals of capacitors and inductors; analysis of dc-driven RL, RC, and RLC circuits; sinusoidal steady-state analysis of general RLC circuits. *Pre-req: MATH153B, PHY083, PHY081L; Co-req: EE031A-L*
- EE031A-L - Electrical Circuits I Lab** **1 unit**
 The laboratory component of EE033A (Electrical Circuits I). *Pre-req: MATH153B, PHY083, PHY081L; Co-req: EE033A*
- EE033B - Electrical Circuits II** **3 units**
 The course deals with sinusoidal steady-state analysis in the frequency domain; AC circuit power analysis; analysis of polyphase circuits and magnetically-coupled circuits; frequency response; per unit system and symmetrical components; and two-port networks. *Pre-req: EE033A, EE031A-L; Co-req: EE031B-L*
- EE031B-L - Electrical Circuits II Lab** **1 unit**
 The laboratory component of EE033B (Electrical Circuits II). *Pre-req: EE033A, EE031A-L; Co-req: EE033B*
- EE042 – Electromagnetics** **2 units**
 The course deals with the study of electric and magnetic fields; resistive, dielectric and magnetic materials, coupled circuits, magnetic circuits and fields, and time-varying electromagnetic fields. It involves a review of vector analysis and types of coordinate system (Cartesian, cylindrical and spherical coordinate systems). Topics covered are dot and cross products of vector, Coulomb's law and electric field intensity of different charge configuration (volume, point, line sheet charge), electric flux density, Gauss's Law, divergence, Maxwell's equations and energy and potential. *Pre-req: MATH223, PHY083, PHY081L; Co-req: None*
- EE053 - Electronic Circuits: Devices and Analysis** **3 units**
 The course covers the fundamentals of electronics and electronic circuits with their basic applications. This includes diode and transistor characteristics necessary for elementary analysis of electronic circuits with discrete components. The second half of the course covers integrated circuits commonly used in electrical engineering. *Pre-req: EE033A, EE031A-L; Co req: EE051L*
- EE051L - Electronic Circuits: Devices and Analysis Lab** **1 unit**
 The course introduces students to the design of electronic circuits for basic applications such as filters, power supplies and op amp signal processors. *Pre-req: EE033A, EE031A-L; Co req: EE053*
- EE062B - Basic Electronics** **2 units**
 This course discusses the construction, operation, and characteristics of basic electronics devices such as PN junction diode, light emitting diode, Zener diode, Bipolar junction transistor and field effect transistor. Diode circuit applications such as clipper, clamper and switching diode circuits will be part of the lecture. Operation of a DC regulated power supply as well as analysis of BJT and FET amplifier circuit will be tackled. This course also discusses the operation and characteristics of operational amplifiers. *Pre-req: EE012B, EE011B-L; Co-req: EE061B-L*
- EE061B-L - Basic Electronics Lab** **1 unit**
 The laboratory component of EE062B (Basic Electronics) where construction, operation, and characteristics of basic electronics devices are applied. *Pre-req: EE012B, EE011B-L; Co-req: EE062B*
- EE082 - Feedback Control Systems** **2 units**
 This course deals with the basics of control systems; terminologies and diagrams; homogeneous and transient responses of systems; systems representation such as transfer functions, state-space analysis of phase variables and techniques, nth order

linear differential equations; modeling, pole-zero gain data and frequency response data; Laplace transforms; block diagrams interconnections and simplifications; signal flow graphs; conversion of block diagrams to signal flow graphs and vice versa; root locus; Bode, Nyquist and Polar plots; PID controllers; sensitivity and stability criteria; linear feedback systems; and compensation techniques. *Pre-req: EE053, EE051L, EE323; Co-req: None*

EE093B - Power System Analysis

3 units

This course deals with the study on the basic structure of power systems, recent trends and innovations in power systems, transmission line parameters, network modeling and calculations, load flow studies, short circuit calculations and use of computer software for simulation. *Pre-req: EE321L; Co-req: EE091B-L, EE311L*

EE091B-L - Power System Analysis Lab

1 unit

The laboratory component of EE093B (power System Analysis). *Pre-req: EE321L; Co-req: EE093B, EE311L*

EE103B - Fundamentals of Electronic Communications

3 units

Fundamental principles of electronic communications theory and its applications. Emphasis is on the introduction of electronic communication systems, analysis and calculations of analog and digital modulation, transmission and reception. Provides insights, framework, knowledge and competencies necessary in analyzing basic communication system as a preparation for electronics engineering profession. *Pre-req: EE053, EE051L; Co-req: None*

EE112B - Instrumentation and Control

2 units

The course deals with the study on control and testing: electromechanical, analog and digital measuring and testing instruments; R, L and C measurements: calibration; graphic and waveform analyzing instruments; detectors for the measurements of process variables; analysis of performance characteristics of control systems; electronics, magnetic, hydraulic and mechanical control. It includes principles of controls and test measurements involving sensors, pneumatic controls, actuators, thermal detectors, thermocouples, thermistors, transducers, PID controllers. *Pre-req: EE082; Co-req: EE111B-L*

EE111B-L - Instrumentation and Control Lab

1 unit

The laboratory component of EE112B (Instrumentation and Control). *Pre-req: EE082; Co-req: EE112B*

EE122A - Electrical Machines 1

2 units

The course deals with the fundamentals of DC machinery; DC motors and generators. *Pre-req: EE033B, EE031B-L, EE042; Co-req: None*

EE123B - Electrical Machines 2

3 units

The course deals with the fundamentals of AC machinery; synchronous generators and motors; induction motors; single-phase and special-purpose motors. *Pre-req: EE122A; Co-req: EE121B-L*

EE121B-L - Electrical Machines 2 Lab

1 unit

The laboratory component of EE123B (Electrical Machines 2). *Pre-req: EE122A; Co-req: EE123B*

EE142 - Logic Circuits and Switching Theory

2 units

This course provides a review of number systems, coding and Boolean algebra; inputs and outputs; gates and gating networks; combinational circuits; standard form; minimization; sequential circuits; state and machine equivalence; asynchronous sequential circuits; race conditions; algorithmic state machines; and design of digital sub-systems. *Pre-req: EE053, EE051L; Co-req: None*

EE163A - Electrical Systems and Illumination Engineering Design

3 units

The course provides knowledge, understanding and skills in designing electrical wiring system for residential, commercial buildings, and industrial facilities through the specifications and standards mandated by the Philippine Electrical Code and provisions from the Local Government on electrical wiring installation. The course includes illumination design and cost estimation; energy-efficient lighting systems for residential, commercial, and industrial establishments; roadway lighting, and lighting maintenance. *Pre-req: EE123B, EE121B-L; Co-req: EE162A-L*

EE162A-L - Electrical Systems and Illumination Engineering Design Lab

2 units

The laboratory component of EE163A (Electrical Systems and Illumination Engineering Design) where understanding and skills in designing wiring system are applied. *Pre-req: EE123B, EE121B-L; Co-req: EE163A*

EE173A - Industrial Electronics

3 units

This course teaches the theory and operation of solid-state devices and control circuits for industrial processes; industrial control applications; electronics instrumentation; transducers; data acquisition system, power supply and voltage regulator. It also covers photo electronics, sensors and instruments used in industrial applications. It includes variable-frequency drives, DC motor, servomotors and stepper motor drives; application of relay logic circuits; and interfacing and programming of PLCs. *Pre-req: EE053, EE051L Co-req: EE171A-L*

- EE171A-L - Industrial Electronics Lab** **1 unit**
The laboratory component of EE173A (Industrial Electronics). *Pre-req: EE053, EE051L Co-req: EE173A*
- EE192A - EE Laws, Codes and Professional Ethics** **2 units**
The course is designed to prepare electrical engineering students for professional practice. Topics include education and practice of the New Electrical Engineering Law and other laws governing the profession, Philippine Grid Code, Philippine Distribution Code, Basic Contracts and ethics in relation to the practice of the electrical engineering profession. *Pre-req: GEC073; Co-req: None*
- EE201A-L - Seminars /Colloquia Lab** **1 unit**
The course involves the attendance and participation of EE graduating students in technical seminars/workshops related to the field of Electrical Engineering. Students are also required to attend non-technical seminars and training for the enhancement of their personality. It also involves short lectures on current trends and recent developments in the EE field. It may include educational visits to selected companies and manufacturing plants. *Pre-req: EE381L; Co-req: None*
- EE232 - Microprocessor Systems** **2 units**
The course includes history and evolution, principles, and applications of microprocessors. The focus is on the basic understanding of the architectural design, functional parts, operations, function and programming. It also covers the study of various types of microprocessors and the fundamental concepts of microcontrollers. *Pre-req: EE142; Co-req: None*
- EE262A - Electrical Apparatus and Devices** **2 units**
This course provides characteristics, principle of operation, and applications of single-phase and three-phase transformers, and protective devices such as fuses and circuit breakers. It includes various types of transformers based on different criteria, types of fuses and circuit breakers, parallel operation of transformers, and standard ratings. *Pre-req: EE033B, EE031B-L; Co-req: EE261A-L*
- EE261A-L - Electrical Apparatus and Devices Lab** **1 unit**
The laboratory component of EE262A (Electrical Apparatus and Devices) where characteristics, principle of operation, and applications of single-phase and three-phase transformers and protective devices are applied. *Pre-req: EE033B, EE031B-L; Co-req: EE262A*
- EE311L - Fundamentals of Power Plant Engineering Design Lab** **1 unit**
It covers topics on load graphics, types of power plants, power plant operation and protection, interconnections, economics of electric service, and arrangement of equipment for modern plants and includes the design of a power plant, its interconnection, operation, economics, and protection. *Pre-req: None; Co-req: EE093B, EE091B-L*
- EE321L - Electrical Standards and Practices Lab** **1 unit**
This course provides the different electrical practices in accordance to local and international standards. *Pre-req: EE192A; Co-req: None*
- EE323 - Engineering Mathematics for EE** **3 units**
The study of mathematical methods for solving engineering problems such as complex number, complex variables, Cauchy-Riemann equations, Laplace transformation and Laplace transform analysis, Fourier series and Fourier transform, z transform, power series solutions of ordinary differential equations, partial differential equation, and hypergeometric equations such as Legendre and Bessel functions. *Pre-req: MATH223; Co-req: None*
- EE332 - Distribution Systems and Substation Design** **2 units**
The course deals with study and design of primary and secondary distribution networks, load characteristics, voltage regulation, metering techniques and systems, and protection of distribution systems. *Pre-req: None; Co-req: EE093B, EE091B-L*
- EE331L - Distribution Systems and Substation Design Lab** **1 unit**
The laboratory component of EE332 (Distribution Systems and Substation Design). *Pre-req: None; Co-req: EE093B, EE091B-L*
- EE342 - Management of Engineering Projects** **2 units**
The course covers the principles of management, theory and practice, various approaches to decision making, managing production and services operations; and project management. Emphasis is also given on the managerial functions of planning, organizing, staffing, leading and controlling. *Pre-req: ENGG103, GEC063; Co-req: None*
- EE381L - Research Methods Lab** **1 unit**
This course covers the study of the methodologies used in conducting an engineering research. It includes the types and application of research, characteristics of a good research, research design, research instrument and data gathering procedures. It also deals with the study of writing a research proposal and various formats. *Pre-req: EE031B-L; Co-req: LQEC633*

EE-RP-L - Research Project**1 unit**

This is a course in which individuals or small teams use the principles of electrical engineering in designing, building, and testing of special circuits or simple systems. The objectives should be the scope of the project proposal in the research method. *Pre-req: EE381L; Co-req: LQEC643*

EE-PRC3 – Practicum (300hrs)**3 units**

Industry exposure of students for them to match school acquired competencies and knowledge with the realities and problems of industry. This may include involvement in industry manpower requirements, development and research concerns, training, and applications of principles, environmental concerns, ethical and behavioral concerns, decision-making, equipment and materials management. The student shall prepare a thesis on a topic covered by his/her experiences. *Pre-req: EE123B, EE121B-L, EE321L; Co-req: None*

EE-Elec1 - EE Elective 1**3 units**

This course deals with the study on the protection of alternators and transformers connected to the electric system at various conditions.

A course involving a study of relay operating principles and characteristics, types of protective relays, applications of protective relaying, and selection of protective relays for transmission and distribution substations/switchgears. *Pre-req: None; Co-req: None*

EE-Elec2 - EE Elective 2**3 units**

Electrical surges including traveling waves due to lightning and switching. Topics to be discussed include principles of lightning protection, multi-velocity waves, insulation coordination, application of surge protection devices and power system grounding.

The course will cover insulations in electric field, electrical discharges and insulation systems, calculation of transient voltages, overvoltage, overvoltage protection and insulation coordination, and testing and measuring techniques. *Pre-req: EE-Elec1; Co-req: None*

E. COMPUTER ENGINEERING PROFESSIONAL COURSES**CpE001 - Computer Engineering as a Discipline****1 unit**

This course discusses the curriculum for Computer Engineering as well as how to prepare students for success through engineering design process, ethical decision-making, teamwork, and communicating to diverse audiences. *Pre-req: None; Co-req: None*

CpE012L - Programming Logic and Design Lab**2 units**

This is an introductory course in computer programming logic. The student will learn algorithms applicable to all programming languages, including: identifiers, data types, arrays, control structures, modular programming, generating reports, and computer memory concepts. The student will learn to use charts commonly used in business and information processing. Program logic will be developed using flowcharts and pseudo code. Programs will be written using any programming language. *Pre-req: None; Co-req: None*

CpE033 - Fundamentals of Electrical Circuits**3 units**

This course introduces the fundamental concepts, circuit laws, theorems and techniques used in electrical circuit analysis and transient analysis, as well as its application. The course covers circuit topologies and DC excitations, transient response, AC response, and polyphase circuits. The use of computer software for circuit simulation and design are emphasized to expose students to computer-based tools. *Pre-req: Phy083, Phy081L; Co-req: CpE031L*

CpE031L - Fundamentals of Electrical Circuits Lab**1 unit**

This course allows the students to verify the laws and theorems discussed in CpE0333 (Fundamentals of Electrical Circuits) through simulation, experimentation and project construction. The course topics include experimental determination of the characteristics of the different circuit configurations (series, parallel, series/parallel, delta, and wye), electrical power, Ohm's Law, Kirchhoff's Voltage and Current Laws, Superposition Theorem, Thevenin's equivalent circuit, and maximum power transfer. The use of computer software for circuit simulation and design are used as basis in verifying experimental results and to expose students to computer-based tools. *Pre-req: Phy083, Phy081L; Co-req: CpE033*

CpE042L - Object Oriented Programming Lab**2 units**

Introduces the fundamental concepts of programming from an object oriented perspective. Topics are drawn from classes and objects, abstraction, encapsulation, data types, calling methods and passing parameters, decisions, loops, arrays and collections, documentation, testing and debugging, exceptions, design issues, inheritance, and polymorphic variables and methods. The course emphasizes modern software engineering and design principles. *Pre-req: CpE012L; Co-req: None*

- CpE053 - Fundamentals of Electronic Circuits** **3 units**
 This course discusses the construction, operation and characteristics of basic electronic devices such as junction diodes, bipolar junction transistors, Field Effect Transistors and MOS Field Effect Transistors and oscillators. *Pre-req: CpE033, CpE031L; Co-req: CpE051L*
- CpE051L - Fundamentals of Electronic Circuits Lab** **1 unit**
 This course is the laboratory component of the course CpE053 (Fundamentals of Electronic Circuits) that allows students to verify theoretical concepts pertaining to the operation of electronic devices such as the PN junction diodes, BJT and FET and their subsequent applications to electronics circuits involving rectification, amplification and switching applications. The use of laboratory equipment and apparatus to verify the characteristics of diodes and transistor devices, and their operations in circuits such as rectifiers, voltage regulators, amplifiers, oscillators and switches are emphasized. Such equipment includes but not limited to the curve tracer, the oscilloscope, signal generator and multi-meters. *Pre-req: CpE033, CpE031L; Co-req: CpE053*
- CpE072L - Data Structures and Algorithms Lab** **2 units**
 Solving computational problems that involve manipulating collections of data, study a core set of data abstractions, data structures, and algorithms that provide a foundation for writing efficient programs. *Pre-req: CpE042L; Co-req: None*
- CpE083 - Feedback and Control Systems** **3 units**
 The course includes the control devices, equations of a systems and block diagram of systems. *Pre-req: MATH303, CpE033, CpE031L; Co-req: None*
- CpE123C - Software Design** **3 units**
 This course focuses on programming paradigms and constructs, data structures and use of standard library functions for manipulating them, object-oriented design and the use of modeling languages, testing and software quality concepts, and tradeoffs among different software design methods. *Pre-req: CpE072L; Co-req: CpE121C-L*
- CpE121C-L - Software Design Lab** **1 unit**
 This course focuses on providing hands-on experience in CpE123C (Software Design). *Pre-req: CpE072L; Co-req: CpE123C*
- CpE153 - Logic Circuits and Design** **3 units**
 The course includes design and analysis of digital circuits. This course covers both combinational (synchronous and asynchronous) logic circuits with emphasis on solving digital problems using hardwired structures of the complexity of medium and large-scale integration. *Pre-req: CpE053, CpE051L; Co-req: CpE151L*
- CpE151L - Logic Circuits and Design Lab** **1 unit**
 This course focuses on providing hands-on experience in designing digital circuits. *Pre-req: CpE053, CpE051L; Co-req: CpE153*
- CpE161B-L - Computer Engineering Drafting and Design Lab** **1 unit**
 This course focuses on the principles of layout of electrical, electronics, and logic drawings; stressing modern representation used for block diagrams, wiring/assembly, drawings, printed circuit board layouts, and etching. *Pre-req: CpE053, CpE051L; Co-req: None*
- CpE183A - Computer Architecture and Organization** **3 units**
 This course includes the study of the evolution of computer architecture and the factors influencing the design of hardware and software elements of computer systems. The focus is on the understanding of the design issues specifically the instruction set architecture and hardware architecture. *Pre-req: CpE193, CpE191L; Co-req: CpE181A-L*
- CpE181A-L - Computer Architecture and Organization Lab** **1 unit**
 This course will provide hands-on activities designed to focus on the computer hardware issues specifically the instruction set architecture and hardware architecture. *Pre-req: CpE193, CpE191L; Co-req: CpE183A*
- CpE193 - Microprocessors** **3 units**
 This course provides understanding of architecture of microprocessor-based systems; registers, study of microprocessor operation, assembly language, arithmetic operations, and interfacing. *Pre-req: CpE153, CpE151L, CpE321L; Co-req: CpE191L*
- CpE191L - Microprocessors Lab** **1 unit**
 This course provides understanding of architecture of microprocessor-based systems; study of microprocessor operation, assembly language, arithmetic operations, and interfacing. *Pre-req: CpE153, CpE151L, CpE321L; Co-req: CpE193*
- CpE203B - Operating Systems** **3 units**
 This course includes different policies and strategies used by an operating system. Topics include operating systems structures, process management, storage management, file management and distributed systems. *Pre-req: CpE072L; Co-req: None*

- CpE213B - Data and Digital Communications** **3 units**
 This course focuses on the fundamental concepts of digital and data communications. It also includes topics on data security and integrity. *Pre-req: CpE053, CpE051L; Co-req: None*
- CpE253B - Digital Signal Processing** **3 units**
 The course includes the need for and tradeoffs made when sampling and quantizing a signal; linear, time-invariant system properties; frequency as an analysis domain complementary to time; and filter design. *Pre-req: CpE083; Co-req: CpE251B-L*
- CpE251B-L - Digital Signal Processing Lab** **1 unit**
 This course is designed to provide hands-on activities on different applications of digital signals processing. *Pre-req: CpE083; Co-req: CpE253B*
- CpE263B - Computer Networks and Security** **3 units**
 The course includes the basic principles of network architecture, computer network design, services, technologies and network security. *Pre-req: CpE213B, CpE203B; Co-req: CpE261B-L*
- CpE261B-L - Computer Networks and Security Lab** **1 unit**
 This course provides hands-on laboratory activities on computer networking. It focuses on the configuration of TCP/IP, routers and switches, network security and wireless fidelity. *Pre-req: CpE213B, CpE203B; Co-req: CpE263B*
- CpE271B-L - Seminars and Field Trips Lab** **1 unit**
 The course includes seminars and lectures on current trends and issues on Computer Engineering developments. Include field trips to different companies and plants dealing with computer system facilities. *Pre-req: CpE342; Co-req: None*
- CpE321L - Introduction to HDL Lab** **1 unit**
 A laboratory course that introduces hardware description language as a tool for designing and testing combinational and sequential circuits. It covers fundamental of concepts of HDL and the basic building blocks of HDL programming. *Pre-req: CpE012L, CpE053, CpE051L; Co-req: None*
- CpE333 - Embedded Systems** **3 units**
 This course provides advanced topics in embedded systems design using contemporary practice; interrupt-driven, reactive, real-time, object-oriented, and distributed client/server embedded systems. *Pre-req: CpE083, ENGG223; Co-req: CpE331L*
- CpE331L - Embedded Systems Lab** **1 unit**
 This course will provide hands-on activities designed to advanced topics in embedded systems design using contemporary practice; interrupt-driven, reactive, real-time, object-oriented, and distributed client/server embedded systems. *Pre-req: CpE083, ENGG223; Co-req: CpE333*
- CpE342 - CpE Laws and Professional Practice** **2 units**
 This course provides the importance of the professional and ethical responsibilities of practicing computer engineers and the effects of their work on society; the importance of understanding contemporary issues, lifelong learning strategies; and applicable IT laws in the field of computer engineering. *Pre-req: CpE161B-L; Co-req: None*
- CpE353 - Emerging Technologies in CpE** **3 units**
 This course is designed to provide flexibility in the curriculum by discussing any emerging technologies applicable to computer engineering. *Pre-req: CpE342, CpE263B, CpE261B-L; Co-req: None*
- CpE383 - Methods of Research** **3 units**
 This course will provide in-depth understanding of research through exploration of different research methodologies and ethics. It includes qualitative and quantitative research, descriptive and other applicable research methodologies, inferential statistics and introduction to data mining. *Pre-req: MATH323, GEC063, CpE153, CpE151L; Co-req: None*
- CpE-PD1-L - CpE Practice and Design 1 Lab** **1 unit**
 This course is the first course in a two-semester sequence that constitutes the design experience for undergraduate computer engineers. It provides essential ideas, concepts and principles in engineering design process and emphasizes other design issues including engineering standards and multiple constraints as well as effective communication strategies. Students work in teams to develop project proposals for assigned open-ended problems. Students are required to make oral presentations and submit written proposal for their projects. *Pre-req: CpE193, CpE191L, CpE333, CpE331L, CpE383; Co-req: None*
- CpE-PD2-L - CpE Practice and Design 2 Lab** **2 units**
 This course is the second of the design experience for undergraduate computer engineering students. In this course, students will be expected to build/fabricate their design, test and evaluate the design against their design specifications, and demonstrate a fully

functional project to their design review committee. Students make oral presentations and submit final reports documenting their projects. *Pre-req: CpE-PD1-L; Co-req: None*

CpE-PRC6 - Practicum (600hrs)

6 units

This course enables students to relate their acquired competencies to the realities and problems of industries in a multidisciplinary environment. This may include involvement in the industry's manpower requirements, development and research concerns, trainings, applications of principles, environmental concerns, ethical and behavioral concerns, decision making, and equipment and materials concerns. *Pre-req: CpE183A, CpE181A-L, CpE253B, CpE251B-L, CpE271B-L, CpE353, CpE-PD2-L, ENGG193; Co-req: None*

ELECTIVES

Track 1 - Embedded Systems

CpElec-1 - Embedded Systems

3 units

This course provides an introduction to embedded systems design. It presents the two aspects of embedded systems as both hardware and software in a unified view. The first part is an overview to embedded systems, design challenges, technologies and development and implementation tools. The second part explores the various hardware implementation technologies; custom single-processor, general-purpose processor and memory and peripheral devices interfacing. Finally, the third part covers IC and Design Technology. *Pre-req: CpE123C, CpE121C-L; Co-req: None*

CpElec-2 - Microelectronics

3 units

This course is an introduction to digital IC design. It covers topics on the electronic properties of materials, the process of fabrication of Digital IC, and the basic concepts in designing digital gates using CMOS design flow process, and the integration of these basic cell structures into fundamental system building blocks. *Pre-req: CpElec-1; Co-req: None*

CpElec-3 - Instrumentation and Control

3 units

The course includes concepts and application of controls and metrics in simple and complex control systems. *Pre-req: CpElec-2; Co-req: None*

Track 2 - Software Development

CpElec-1 - Management Information System

3 units

This course provides an integrative study of what constitutes management information, goals of management, and measures of information value in support of those goals and usual sources of information. The course reviews how management utilizes the vast amounts of computer-generated data, through class discussion and analysis. *Pre-req: CpE123C, CpE121C-L; Co-req: None*

CpElec-2 - Project Management

3 units

The course includes the fundamentals of Project Management; Project Management Process, Project Management Initiation; Project Planning and Quality; Time & Resource Management; Risk; Health and Safety; Project Cost & Budget; The Project Team; Contracts; Procurement & Closure failure Mitigation. *Pre-req: CpElec-1; Co-req: None*

CpElec-3 - Database Management System

3 units

This course covers the concepts and definitions of databases, the database environment, database design, development, database security and implementation as well as data warehouses. Students will have practical and hands-on experience in SQL (structured-query-language), which is generally used in the development of database applications as well as management of databases. *Pre-req: CpElec-2; Co-req: None*

Track 3 - CISCO Networking Track

CpElec-1 - CISCO Networking Module 1

3 units

This course introduces students to the architecture, structure, functions, components, and models of the Internet and other computer networks. It uses the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced as well to provide a foundation for the curriculum. Labs use a "model internet" to allow students to analyze real data without affecting production networks. Packet tracer (PT) activities help students analyze protocol and network operation and build small networks in a simulated environment. *Pre-req: CpE123C, CpE121C-L; Co-req: None*

CpElec-2 - CISCO Networking Module 2

3 units

This course introduces students to the architecture, components, operation of routers, and the principles of routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols (RIPv1, RIPv2, EIGRP, and OSPF). *Pre-req: CpElec-1; Co-req: None*

CpElec-3 - CISCO Networking Module 3 and 4

3 units

This course helps students develop an in-depth understanding of how switches operate and are implemented in the LAN environment for small and large networks. Beginning with a foundational overview of Ethernet, this course provides detailed

explanations of LAN switch operation, VLAN implementation, Rapid Spanning Tree Protocol (RSTP), VLAN Trunking Protocol (VTP), Inter-VLAN routing, and wireless network operations. Students analyze, configure, verify, and troubleshoot VLANs, RSTP, VTP, and wireless networks. Campus network design and Layer 3 switching concepts are also introduced. This course also explains the principles of traffic control and access control lists (ACLs) and provides an overview of the services and protocols at the data link layer for wide-area access. Students learn user access technologies and devices and discover how to implement and configure Point-to-Point Protocol (PPP), Point-to-Point Protocol over Ethernet (PPPoE), DSL, and Frame Relay. WAN security concepts, tunneling, and VPN basics are also introduced. The course ends in a discussion of the special network services required by converged applications and an introduction to quality of service (QoS). *Pre-req: CpElec-2; Co-req: None*

F. ELECTRONICS ENGINEERING PROFESSIONAL COURSES

ECE013A - Circuits I

3 units

Covers the basic concepts and fundamental laws of electrical circuit theory; analysis and applications of series, parallel and series-parallel resistive circuits; mesh and nodal analysis; network theorems; characteristics of inductors and capacitors; analysis of RL, RC, and RLC circuits with DC excitation. *Pre-req: PHY083, PHY081L; Co-req: ECE011A-L*

ECE011A-L - Circuits I Lab

1 unit

The laboratory component of ECE013A (Circuits I). *Pre-req: PHY083, PHY081L; Co-req: ECE013A*

ECE013B - Circuits II

3 units

Covers the steady state frequency domain analysis of RLC circuits driven by sinusoidal voltage/current source(s); impedance bridge circuits; application of mesh/nodal analysis and network theorems in AC circuit analysis; concept of power and power factor correction in AC circuits; resonant and tuned circuits; two port network analysis; analysis of dynamic circuits with AC excitation. *Pre-req: ECE013A, ECE011A-L; Co-req: ECE011B-L*

ECE011B-L - Circuits II Lab

1 unit

The laboratory component of ECE013B (Circuits II). *Pre-req: ECE013A, ECE011A-L; Co-req: ECE013B*

ECE024 – Electromagnetics

4 units

This course deals with vector algebra, vector calculus, vector analysis, and their applications in electric and magnetic fields, resistive, dielectric and magnetic materials, coupled circuits, magnetic circuits and fields, time-varying electromagnetic fields, and Maxwell's equations. *Pre-req: MATH223; Co-req: None*

ECE033A - Electronics I

3 units

Introduction to quantum mechanics of solid state electronics; diode and transistor characteristics and models (BJT and FET); diode circuit analysis and applications; transistor biasing; small signal analysis; large signal analysis; transistor amplifiers; Boolean logic; transistor switch. *Pre-req: ECE013A, ECE011A-L; Co-req: ECE031A-L, ECE203, ECE201L*

ECE031A-L - Electronics I Lab

1 unit

The laboratory component of ECE033A (Electronics I). *Pre-req: ECE013A, ECE011A-L; Co-req: ECE033A, ECE203, ECE201L*

ECE033B - Electronics II

3 units

High frequency transistor models; analysis of transistor circuits; multi-stage amplifier, feedback, differential amplifiers and operational amplifiers; integrated circuit families (RTL, DTL, TTL, ECL, MOS). *Pre-req: ECE033A, ECE031A-L; Co-req: ECE031B-L*

ECE031B-L - Electronics II Lab

1 unit

The laboratory component of ECE033B (Electronics II). *Pre-req: ECE033A, ECE031A-L; Co-req: ECE033B*

ECE033C - Electronics III

3 units

Theory, operating characteristics and design of electronic devices and control circuits for industrial processes; industrial control applications; electronics instrumentation; transducers; data acquisition system; interfacing techniques; sensors. *Pre-req: ECE033B, ECE031B-L; Co-req: ECE031C-L, ECE-DPA-L*

ECE031C-L - Electronics III Lab

1 unit

The laboratory component of ECE033C (Electronics III). *Pre-req: ECE033B, ECE031B-L; Co-req: ECE033C, ECE-DPA-L*

ECE053B - Signals, Spectra and Signal Processing

3 units

Fourier transform; z transform; convolution; FIR filters; IIR filters; random signal analysis; correlation functions; DFT; FFT; spectral analysis; applications of signal processing to speech, image, etc. *Pre-req: MATHECE253, MATHECE251L; Co-req: ECE051B-L*

- ECE051B-L - Signals, Spectra and Signal Processing Lab** **1 unit**
 The laboratory component of ECE053B (Signals, Spectra and Signal Processing). *Pre-req: MATHECE253, MATHECE251L; Co-req: ECE053B*
- ECE083 - Feedback and Control Systems** **3 units**
 This course includes the control devices, equations of a systems and block diagram of systems. It deals with the different commands/techniques in control system, the equivalent transfer functions of different control current; and the criterion for the systems stability. *Pre-req: MATHECE253, MATHECE251L; Co-req: ECE081L*
- ECE081L - Feedback and Control Systems Lab** **1 unit**
 The laboratory component of ECE083 (Feedback and Control Systems). *Pre-req: MATHECE253, MATHECE251L; Co-req: ECE083*
- ECE093 - Dig Electro 1: Logic Circuits and Switching Theory** **3 units**
 This course includes design and analysis of digital circuits. It course covers both combinational (synchronous and asynchronous) logic circuits with emphasis on solving digital problems using hardwired structures of the complexity of medium and large-scale integration. *Pre-req: ECE033A, ECE031A-L; Co-req: ECE091L*
- ECE091L - Dig Electro 1: Logic Circuits and Switching Theory Lab** **1 unit**
 The laboratory component of ECE093 (Dig Electro 1: Logic Circuits and Switching Theory). *Pre-req: ECE033A, ECE031A-L; Co-req: ECE093*
- ECE113 - Dig Electro 2: Microprocessor and Microcontroller Systems** **3 units**
 This course is the study of the design, and applications of microprocessor systems based on stated requirements. The focus is on the basic understanding of its structure and function in order to appreciate the architectural design of microprocessor. The students are encouraged to study various types of microprocessors in order to acquire a better understanding of microprocessor. *Pre-req: ECE093, ECE091L; Co-req: ECE111L*
- ECE111L - Dig Electro 2: Microprocessor and Microcontroller Systems Lab** **1 unit**
 The laboratory component of ECE113 (Dig Electro 2: Microprocessor and Microcontroller Systems). *Pre-req: ECE093, ECE091L; Co-req: ECE113*
- ECE133B - ECE Laws, Contracts, Ethics, Standards, and Safety** **3 units**
 Contracts; warranties; liabilities; patents; bids; insurance; other topics on the legal and ethical positions of the professional engineer. *Pre-req: GEC043, GEC073; Co-req: None*
- ECE171A-L - Seminars / Colloquia Lab** **1 unit**
 This course deals with a series of lectures and seminars on selected topics that are highly relevant to electronics engineering but are not covered in any of the other formal courses. It covers recent advances in electronics engineering. It is also a venue for the students to present their projects and researches. *Pre-req: ENGG103, ECE133B; Co-req: None*
- ECE203 - COMM 1: Principles of Communication Systems** **3 units**
 Bandwidth; filters; linear modulation; angle modulation; phase locked loop; pulse modulation; multiplexing techniques; noise analysis; radio transmitters and receivers. *Pre-req: None; Co-req: ECE033A, ECE031A-L, LQEC723*
- ECE201L - COMM 1: Principles of Communication Systems Lab** **1 unit**
 The laboratory component of ECE203 (COMM 1: Principles of Communication Systems). *Pre-req: None; Co-req: ECE033A, ECE031A-L, LQEC723*
- ECE223 - COMM 2: Modulations and Coding Techniques** **3 units**
 Random variables, bit error rate; matched filter; Digital modulation techniques; ASK, FSK, QAM, PSK/QPSK, CDMA and W-CDMA systems; signal space; generalized orthonormal signals; information measures-entropy; channel capacity; efficient encoding; error correcting codes information theory; data compression; coding theory. *Pre-req: ECE203, ECE201L; Co-req: ECE221L, ECE-DPA-L*
- ECE221L - COMM 2: Modulations and Coding Techniques Lab** **1 unit**
 The laboratory component of ECE223 (COMM 2: Modulations and Coding Techniques). *Pre-req: ECE203, ECE201L; Co-req: ECE223, ECE-DPA-L*
- ECE243 - COMM 3: Data Communications** **3 units**
 Data communication systems; terminals, modems; terminal control units; multiplexers; concentrators; front-end processors; common carrier services; data communication system design; computer network models; TCP/IP principles; LAN; WAN; sample case studies. *Pre-req: ECE223, ECE221L; Co-req: ECE241L*

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| ECE241L - COMM 3: Data Communications Lab | 1 unit |
| The laboratory component of ECE243 (COMM 3: Data Communications). <i>Pre-req: ECE223, ECE221L; Co-req: ECE243</i> | |
| ECE263 - COMM 4: Transmission Media and Antenna Systems | 3 units |
| Transmission media; radiowave propagation wire and cable transmission systems; fiber-optic transmission system; transmission lines and antenna systems. <i>Pre-req: ECE223, ECE221L; Co-req: ECE261L</i> | |
| ECE261L - COMM 4: Transmission Media and Antenna Systems Lab | 1 unit |
| The laboratory component of ECE263 (COMM 4: Transmission Media and Antenna Systems). <i>Pre-req: ECE223, ECE221L; Co-req: ECE263</i> | |
| ECE383 - Methods of Research | 3 units |
| This course deals with research preparation methods, research tools, research proposals, and the implementation, presentation and publication of research work. <i>Pre-req: ECE033A, ECE031A-L, ECE203, ECE201L, MATH323; Co-req: None</i> | |
| ECE-DPA-L - ECE Design 1 Lab | 1 unit |
| This is the capstone course which utilizes the fundamentals of electronics engineering in the design of an electronic system. It includes the synthesis of processes, analysis of process conditions and the analytic, heuristic and optimum design of equipment and processes. Economic analysis is included to estimate the cost of equipment, capital investment, total product cost and profitability. <i>Pre-req: ECE383; Co-req: ECE033C, ECE031C-L, ECE223, ECE221L; Co-req: None</i> | |
| ECE-DPB-L - ECE Design 2 Lab | 1 unit |
| This is the capstone course which utilizes the fundamentals of electronics engineering in the design of an electronic system. It includes the synthesis of processes, analysis of process conditions and the analytic, heuristic and optimum design of equipment and processes. Economic analysis is included to estimate the cost of equipment, capital investment, total product cost and profitability. <i>Pre-req: ECE-DPA-L; Co-req: None</i> | |
| ECE-PRC3 - Practicum (300hrs) | 3 units |
| This course will enable the students to relate their acquired competencies to the realities and problems of industries. This may include involvement in the industry's manpower requirements, development and research concerns, trainings, applications of principles, environmental concerns, ethical and behavioral concerns, decision making, and equipment and materials concerns. <i>Pre-req: ECE-ELEC2, ECE-ELEC2L; Co-req: LQEC753</i> | |
| ECE-ELEC1 - ECE Elective 1 | 3 units |
| <i>Pre-req: None; Co-req ECE033C, ECE031C-L, ECE 223, ECE221L, ECE-ELEC1L</i> | |
| ECE-ELEC1L - ECE Elective 1 Lab | 1 unit |
| <i>Pre-req: None; Co-req ECE033C, ECE031C-L, ECE 223, ECE221L, ECE-ELEC1</i> | |
| ECE-ELEC2 - ECE Elective 2 | 3 units |
| <i>Pre-req: ECE-ELEC1, ECE-ELEC1L; Co-req: ECE-ELEC2L</i> | |
| ECE-ELEC2L - ECE Elective 2 Lab | 1 unit |
| <i>Pre-req: ECE-ELEC1, ECE-ELEC1L; Co-req: ECE-ELEC2</i> | |
| <u>G. ARCHITECTURE PROFESSIONAL COURSES</u> | |
| ARCHI011/011L - Architectural Design 1 (Introduction to Design) | 1/1 unit |
| Design fundamentals involving basic creative design exercises with emphasis on space, from mass. <i>Pre-req: None</i> | |
| ARCHI021/022L - Architectural Visual Communications 1 (Graphics 1) | 1/2 units |
| The study of visual communication, typography, alphabet of lines and their applications and the use and care of instruments, geometric construction, use of scale, mensuration and dimensioning. Emphasis is given to the study of the theory of projection with analysis of the relationship between points, lines and planes in space. Includes exercises on surface development and graphic presentation. <i>Pre-req: None</i> | |
| ARCHI031/031L - Theory of Architecture 1 | 1/1 unit |
| Design theories with emphasis on perceptual and proxemic sensitivities in organizing forms and space. <i>Pre-req: None</i> | |
| ARCHI041/041L - Architectural Visual Communications 2 (Visual Techniques 1) | 1/1 unit |
| The study of visualization and graphic presentation in the form of freehand drawings including still-life and architectural forms and entourage using different media, in black and white/monochrome. <i>Pre-req: None</i> | |

- ARCHI051/051L - Architectural Design 2 (Creative Design Fundamentals)** **1/1 unit**
 Design exercises involving anthropometrics, modular coordination, functional relationships and activity circuits including basic design techniques and tools. *Pre-req: ARCHI011, ARCHI011L, ARCHI031, ARCHI031L*
- ARCHI061/062L - Architectural Visual Communications 3 (Graphics 2)** **1/2 units**
 An introduction to measured drawings applying graphic conventions; the study of pictorial presentation and perspective projections; plotting of shades and shadows in both orthographic and perspective drawings. *Pre-req: ARCHI021, ARCHI022L*
- ARCHI072 - Theory of Architecture 2** **2 units**
 Evaluation of current concepts, goals, processes and methodologies applicable to architectural design. *Pre-req: ARCHI031, ARCHI031L*
- ARCHI081/081L - Architectural Visual Communications 4 (Visual Techniques 2)** **1/1 unit**
 An introduction to the study of color as form-giver; psychology of color; theories of light and color; scientific and aesthetic considerations of color; study and exercises on the use of color as presentation tool; architectural presentations and outdoor color rendering using appropriate techniques in color mixing and application and various media such as watercolor, acrylic, paints, pastel etc. *Pre-req: ARCHI041, ARCHI041L*
- ARCHI091/ARCHI092L - Architectural Design 3 (Creative Design in Architectural Interiors)** **1/2 units**
 Design exercises stressing the value of programming, orientation, and inter-relationship of interior spaces. *Pre-req: ARCHI051, ARCHI051L, ARCHI072*
- ARCHI101/101L - Architectural Visual Communications 5 (Visual Techniques 3)** **1/1 unit**
 Covers exercises on advanced techniques of presentation using mixed media. Includes the study of multi-media composition/digital presentation, photography and computer generation. *Pre-req: ARCHI081, ARCHI081L*
- ARCHI113 - Building Technology 1 (Building Materials)** **3 units**
 Building materials- its properties, composition, application and articulation including the mode of specifying these materials in building construction. *Pre-req: ARCHI031, ARCHI031L*
- ARCHI121/121L - Architectural Interiors** **1/1 unit**
 Basic design of interior spaces geared toward initial understanding of theories and principles in architectural interiors in relation to anthropometrics, proxemics and ergonomics. *Pre-req: ARCHI031, ARCHI031L*
- ARCHI132 - History of Architecture 1** **2 units**
 Architectural manifestation of thoughts from the beginning of civilization to the Byzantine Period. *Pre-req: None*
- ARCHI141/142L - Architectural Design 4 (Space Planning 1)** **1/2 units**
 Design exercises involving innovative approaches on vernacular architecture including energy conservation and space management. *Pre-req: ARCHI091, ARCHI092L*
- ARCHI152/151L - Building Technology 2 (Construction Drawings in 1-Storey Building)** **2/1 unit**
 Construction methods and techniques and the production of working drawings of a one-storey building structure in wood, masonry, reinforced concrete and steel. *Pre-req: ARCHI113*
- ARCHI162/161L - Building Utilities 1 (Plumbing and Sanitary Systems)** **2/1 unit**
 Principles and practices in plumbing and sanitary systems-its design, installation, operation and maintenance in buildings in relation to the immediate surroundings or environment. *Pre-req: ARCHI113*
- ARCHI172 - Tropical Design** **2 units**
 Techniques for the design and planning of buildings within the technological and social constraints prevailing in the hot-humid tropics. *Pre-req: ARCHI113*
- ARCHI182 - History of Architecture 2** **2 units**
 Architectural manifestation of civilization and thoughts during the era of western dominance towards post modernism. *Pre-req: ARCH132*
- ARCHI191/ARCHI093L - Architectural Design 5 (Space Planning 2)** **1/3 units**
 Design exercises stressing the analysis of space requirements based on organizational structure, functional set up and human behavior to focus on linkages and interaction to spaces. *Pre-req: ARCHI141, ARCHI142L*

- ARCH202/201L - Building Technology 3 (Construction Drawings in 2-Storey Building)** **2/1 unit**
Construction methods and techniques and the production of working drawings of a medium- rise building of reinforced concrete, masonry, glass and steel. *Pre-req: ARCH152, ARCH151L*
- ARCH212/211L - Building Utilities 2 (Electrical, Electronics, and Mechanical System)** **2/1 unit**
Mechanical and Electrical systems in buildings, their design, equipment, installation and maintenance. *Pre-req: ARCH162, ARCH161L*
- ARCH222 - History of Architecture 3** **2 units**
Architectural reflections of traditional Asian thoughts and civilizations: their changes and challenges in contemporary life. *Pre-req: ARCH182*
- ARCH233 - Prof Prac 1 (Laws Affecting the Practice of Architecture)** **3 units**
Legal obligations and responsibilities of the Architect; is designed to provide the students with the basic knowledge of all laws related to the practice of architecture. *Pre-req: ARCH141, ARCH142L*
- ARCH241/241L - CADD for Architecture 1** **1/1 unit**
A basic introduction on computer and software programs useful in architectural practice. The course deals with aspects of architectural 2D & 3D drafting and design. *Pre-req: ARCH141, ARCH142L, ARCH162, ARCH161L*
- ARCH251/ARCH253L - Architectural Design 6 (Site Development Planning and Landscaping)** **1/3 units**
Design exercises stressing environmental analysis, aesthetic, topographic, geologic, and seismologic conditions, utilities, circulations, legal considerations and sensitivities of man. *Pre-req: ARCH191, ARCH193L*
- ARCH262/261L - Building Technology 4 (Specification Writing and Quantity Surveying)** **2/1 unit**
Specifications writing using uniform system or master format, estimating methods and quantity surveying. *Pre-req: ARCH202, ARCH201L*
- ARCH272/271L - Building Utilities 3 (Acoustics and Lighting Systems)** **2/1 unit**
The psycho-physics of acoustics and lighting-its measurement, analysis and application to architectural discipline. *Pre-req: ARCH212, ARCH211L*
- ARCH282 - History of Architecture 4** **2 units**
Reflections on architecture in the Philippines: their changes and challenges in contemporary life and the ideology of conserving its architectural legacies. *Pre-req: ARCH222*
- ARCH293 - Prof Prac 2 (Administering the Regular Services of the Architecture)** **3 units**
Architecture as a profession, Ethical Norms and Office Procedures; is designed to provide the students with the basic understanding of the practice of architecture pertaining to the basic services the architect renders within the context of professionalism, ethical conduct and quality service delivery. *Pre-req: ARCH233*
- ARCH303 - Plan 1 (Site Planning and Landscape Architecture)** **3 units**
The artistic and functional arrangement of buildings; open spaces, service areas, circulation and other external areas; techniques in the enhancement and design of exterior environments. *Pre-req: ARCH191, ARCH193L*
- ARCH311/311L - CADD for Architecture 2** **1/1 unit**
An advanced computer-aided architectural rendering, modeling and animation using current software. *Pre-req: ARCH241, ARCH241L*
- ARCH321/324L - Architectural Design 7 (Community Architecture and Urban Design)** **1/4 units**
Design exercises giving emphasis on the socio-cultural activities of man, architectural conservation, proxemics and materials for architecture and designing with nature. *Pre-req: ARCH251, ARCH253L*
- ARCH332/331L - Building Technology 5 (Alternative Building Construction Systems)** **2/1 unit**
Construction methods and techniques for different types of buildings using any appropriate alternative building construction system. *Pre-req: ARCH262, ARCH261L*
- ARCH343 - Plan 2 (Fundamentals of Urban Design and Community Architecture)** **3 units**
Spatial Order, Socio-Cultural expression in the design of the exterior environment in neighborhoods, communities, towns and cities. *Pre-req: ARCH303*

- ARCHI351/354L - Architectural Design 8 (Design of Complex Structures)** **1/4 units**
Design exercises giving emphasis to process and development of building structures, utilities, laws, structural concepts and ecological planning. *Pre-req: ARCHI321, ARCHI324L*
- ARCHI363 - Plan 3 (Introduction to Urban and Regional Planning)** **3 units**
Concepts and emerging trends, methods and techniques in urban and regional planning; design of human settlements, and overview of land use in the planning of regions. *Pre-req: ARCHI343*
- ARCHI373 - Prof Prac 3 (Global Practice for the 21st Century)** **3 units**
The Architect, the Firm, the Project in the Global Arena; is designed to provide the students with an expanded view of the role of the architect in the built environment and the emerging transformation of the practice of architecture in a global setting. *Pre-req: ARCHI293*
- ARCHI383 - Research Methods for Architecture** **3 units**
Quantitative and operational methods in architectural design research activity, requirement in use analysis. *Pre-req: ARCHI321, ARCHI324L, GEC063*
- ARCHI392 - Housing** **3 units**
Socio-Cultural and Institutional Challenges for Effective Delivery of Housing in the Philippines. *Pre-req: ENGG303*
- ARCHI403 - Business Management and Application for Architecture 1** **3 units**
The course will focus on managing business architectural firms and understand architectural office processes/ practices. *Pre-req: None; Co-req: ARCHI-SP2*
- ARCHI411/414L - Architectural Design 9 (Thesis Research Writing)** **1/4 units**
Design exercises stressing the importance of collaboration in solving architectural problems; preliminary research and studies for the terminal project. *Pre-req: ARCHI351, ARCHI354L*
- ARCHI423 - Business Management and Application for Architecture 2** **3 units**
The course is the continuation of Business Management and Application for Architecture 1. *Pre-req: ARCHI403*
- ARCHI431/434L - Architectural Design 10 (Thesis Research Application)** **1/4 units**
Terminal project involving a comprehensive problem in building, interior and landscape architecture integrating the process and issues of previous studies. *Pre-req: ARCHI411, ARCHI414L*
- ARCHI-SP1 - Specialization Course 1** **3 units**
The course will focus on the specializing area for architecture based on the selected track of students. The specializing area for architecture are construction management and community planning development. *Pre-req: ARCHI321, ARCHI324L*
- ARCHI-SP2 - Specialization Course 2** **3 units**
The course is the continuation program for Specialization Course 1. *Pre-req: ARCHI-SP1; Co-req: ARCHI403*
- ARCHI-SP3 - Specialization Course 3** **3 units**
The course is the terminal program for Specialization Course 1 and 2. *Pre-req: ARCHI-SP2*

H. CIVIL ENGINEERING PROFESSIONAL COURSES

- CE002 - Civil Engineering Orientation** **2 units**
Introduction to various tracks of specialization of civil engineering, emphasis on ethics, responsibility and professionalism. *Pre-req: None; Co-req: None*
- CE013 - Fundamentals of Surveying** **3 units**
This course deals with: Measurement of distance and distance corrections, the use of surveying instruments, area computations, balancing the traverse, elevation determination, and leveling. Stadia surveying, topographic surveying, triangulation and trilateration, missing data, irregular boundaries, and global positioning system. *Pre-req: DRW001L; Co-req: CE011L*
- CE011L - Fundamentals of Surveying Lab** **1 unit**
Proper handling and utilization of surveying instrument will be taken. Students will learn how to perform measurement of distance and apply distance corrections, use and proper handling of surveying instruments, and perform calculations related to area computations, latitude and departure computations, DMD and DPD methods of land area determination, balancing the traverse, elevation determination, and leveling. Perform stadia surveying, topographic surveying, triangulation and trilateralization, missing data computation, and subdivision of lots. Laying out of horizontal curves, compound curve, reversed curve, spiral curve and mass diagramming. *Pre-req: DRW001L; Co-req: CE013*

CE022/021L - Construction Materials and Testing**2/1 unit**

The course deals with the physical properties of common construction materials primarily metals, plastics, wood, concrete, coarse and fine aggregates, asphalt and synthetic materials; examination of material properties with respect to design and use of end product, design and control of aggregates, concrete and asphalt mixtures, principle of testing; characteristics of test; properties of materials and materials testing equipment. *Pre-req: ENGG003, Co-req: ENGG064*

CE033/031L - Structural Theory**3/1 unit**

A professional course common to all civil engineering students designed to provide fundamental concepts, principles, and theories in the theory of structures and structural analysis for internal actions in a structure and its deformations under load. *Pre-req: ENGG002, ENGG064*

CE043 - Highway and Railroad Engineering**3 units**

Presents the methods and underlying principles for the design and control of the elements of road and railroad infrastructure. Students also become familiar with transportation system terminology, flow analysis, driver, vehicle and road characteristics, and aspects of road geometrics, road construction, drainage, pavements and maintenance. *Pre-req: ENGG003, CE013, CE011L; Co-req: None*

CE052 - Building Systems Design**2 units**

The lecture course will focus on developing knowledge of building systems, including architectural design building materials and construction techniques, and will foster the skills required to adopt a building systems approach compliant to the National Building Code and its referral codes. The students' developed knowledge of building systems will also include understanding of different types and applications of building materials and diverse construction techniques. Sustainability principles' impact on the property lifecycle, and how these will integrate and apply to skills and knowledge to industry based case studies will also be examined. The course will include at least one site visit to an operating building in the locality. *Pre-req: DRW051L; Co-req: CE051L*

CE051L - Building Systems Design Lab**1 unit**

The laboratory class will focus on the tools and techniques to create a computer generated building model, and applied tools for working with computer model exploring output and simulation. Students will develop techniques looking at both realistic and schematic representation, and the integration of building systems modeling as a tool to inform and enhance the design process. *Pre-req: DRW051L; Co-req: CE052*

CE062/061L - Principles of Steel Design**2/1 unit**

A professional course common to all civil engineering students designed to provide fundamental concepts, principles, and theories in the structural strength analysis and design of steel elements in a structure. *Pre-req: CE073, CE071L*

CE073/071L - Principles of Reinforced/ Prestressed Concrete**3/1 unit**

A professional course common to all civil engineering students designed to provide fundamental concepts, principles, and theories in the structural strength analysis and design of plain, reinforced, and prestressed concrete elements in a structure. *Pre-req: CE033, CE031L*

CE082 - Hydrology**2 units**

The course deals on the hydrologic cycle and the different processes such as precipitation, evaporation, infiltration, overland flow, groundwater flow and surface runoff generation. *Pre-req: ENGG002, ENGG064; Co-req: CE094, CE091L*

CE094/091L - Hydraulics**4/1 unit**

The course emphasizes the continuity equation, energy equation, and momentum equation. Familiarization of the properties of common liquids in the study of hydraulics. Application of fundamental principles to solve problems involving liquid pressure and corresponding forces resulting from this pressure. Applications of appropriate equations in performing calculations involving flow velocity, flow rate and forces exerted by moving liquids in closed conduits and open channels. Familiarization and applications of flow measuring devices such as orifice, weirs, pitot tube. *Pre-req: ENGG002, ENGG064; Co-req: CE082*

CE102 - CE Law, Ethics and Contracts**2 units**

This course deals on the principles and fundamentals of the laws on obligations, contracts, and professional ethics that are applicable to the civil engineering profession. It is designed to prepare civil engineering students for professional practice. Topics on the perspective of the student as future practitioners, contractors, and employees in the field are also given emphasis. They include the study of code of ethics, legal procedure in the practice of civil engineering in the Philippines, ethical relations of an engineer with fellow professionals, clients, and general public, elements of contracts, obligations, Civil Engineering Law (RA 544) National Building Code, Labor Laws, E-Procurement Law, and the Manual of Professional Practice for Civil Engineers. *Pre-req: CE-PRC, CE-PRC-L; Co-req: None*

CE113 - Geotechnical Engineering 1 (Soil Mechanics)**3 units**

Soil formation and identification. Engineering properties of soils. Fundamental aspects of soil characterization and response, including soil mineralogy, soil-water movement, effective stress, consolidation, soil strength, and soil compaction. Use of soils and geosynthetic materials in geotechnical and geo-environmental applications. Introduction to site investigation techniques. *Pre-req: CE033, CE031L, ENGG064, GEO012; Co-req: CE111L*

CE111L - Geotechnical Engineering 1 Lab (Soil Mechanics Lab)**1 unit**

Laboratory testing and evaluation of soil composition and properties. *Pre-req: CE033, CE031L, ENGG064, GEO012; Co-req: CE113*

CE123 - Principles of Transportation Engineering**3 units**

The course gives emphasis on urban transportation planning, design and operation using statistical and modeling techniques and computer methods. It also covers capacity and level of service of air, rail and highway. It also includes safety, environmental impacts and mitigation, transportation policy fundamentals and case studies. *Pre-req: CE043; Co-req: None*

CE131/131L - Quantity Surveying**1/1 unit**

This course provides a basic understanding of the methods used to prepare a building and/or bridge construction cost estimate and earthwork costs. The students learn to do quantity takeoff utilizing plans and specifications. *Pre-req: CE052, CE051L*

CE153 - Construction Methods and Project Management**3 units**

The course deals with the principles of construction methods and equipment, management and their applications. It covers project planning, scheduling, monitoring and control. It also includes concepts on organization, safety, information systems and computer applications. Students are given opportunities to visit actual project sites and observe the application of these theories in construction projects. *Pre-req: CE-PRC, CE-PRC-L; Co-req: None*

CE-PJ1/L - CE Project 1**2 units**

Development of a capstone project proposal containing a clear set of objectives, methodology, project implementation plan/schedule and resource requirements. *Pre-req: CE073, CE071L, CE094, CE091L, CE123*

CE-PJ2/L - CE Project 2**2 units**

Implementation of a capstone project based on an approved proposal. *Pre-req: CE-PJ1, CE-PJ1-L*

V. NURSING PROGRAM**A. NURSING PROFESSIONAL COURSES****NCM100-18 - Theoretical Foundations in Nursing****3 units**

This course deals with the Meta concepts of a person, health, environment and nursing as viewed by the different theorists. Likewise, it includes non-nursing theories such as systems, developmental and change theories. It presents how these concepts and theories serve as guide to nursing practice. It further deals with health as a multifactorial phenomenon and the necessary core competencies that the nurse needs to develop. *Pre-req: None; Co-req: None*

NCM101-18 - Health Assessment (HA)**3 units**

The course deals with concepts, principles & techniques of history taking using various tools, physical examination (head to toe), psychosocial assessment and interpretation of laboratory findings to arrive at a nursing diagnosis on the client across the lifespan in community and hospital settings. *Pre-req: NCM100-18; Co-req: RLE101-18*

RLE101-18 - Related Learning Experiences (HA)**2 units/102hrs**

The course deals with the actual application and demonstration of concepts, principles and techniques of history taking using various tools, physical examination (head to toe), psychosocial assessment and interpretation of laboratory findings to arrive at a nursing diagnosis on the client across the lifespan in community and hospital settings. *Pre-req: None; Co-req: NCM101-18*

NCM102-18 - Health Education**3 units**

The course includes discussions on health education concepts, principles, theories and strategies as they apply in the clinical and classroom situations. *Pre-req: NCM101-18; Co-req: NCM103-18, RLE103-18*

NCM103-18 - Fundamentals of Nursing Practice (FNP)**3 units**

This course provides the students with the overview of nursing as a science, an art and a profession. It deals with the concept of man as a holistic being comprised of bio- psycho- socio and spiritual dimensions. It includes a discussion on the different roles of a nurse emphasizing health promotion, maintenance of health as well as prevention of illness utilizing the nursing process. It includes the basic nursing skills needed in the care of individual clients. *Pre-req: AnaPhys003, AnaPhys002L, CHM073, CHM072L, NCM101-18; Co-req: NCM102-18, RLE103-18*

RLE103-18 - Related Learning Experiences (FNP)**2 units/102hrs**

This course is the application of nursing as a science, an art and a profession and demonstration of basic nursing skills needed in the care of individual clients across the lifespan in community and hospital settings emphasizing health promotion, maintenance of health as well as prevention of illness utilizing the nursing process. *Pre-req: NCM101-18, CHM073, AnaPhys003; Co-req: NCM102-18, NCM103-18*

NCM104-18 - Community Health Nursing I (CHN I)**2 units**

This course focuses on the care of the individual and family in the community as clients utilizing concepts and principles in community health development. It also describes problems, trends and issues in the Philippine and global health care systems affecting community health nursing practice. *Pre-req: NCM103-18, RLE103-18; Co-req: RLE104-18, NCM105-18, NCM105L-18*

RLE104-18 - Related Learning Experiences (CHN I)**2 units/102hrs**

This course focuses on the application and demonstration on the care of the individual and family in the community as clients utilizing concepts and principles in community health development. *Pre-req: RLE103-18; Co-req: NCM104-18, NCM105-18, NCM105L-18*

NCM105-18 - Nutrition and Diet Therapy**2 units**

This course deals with the study of food in relation to health. It covers nutrients and other substances and their action, and interaction and balance in relation to health and diseases and the process by which organism ingests, digests, absorbs, transports, utilizes and excretes food substances. It will also focus in the therapeutic and food service aspects of the delivery of nutritional services in hospitals and other healthcare institutions. *Pre-req: McroPra063, CHM073, CHM072L, AnaPhys003, AnaPhys002L; Co-req: NCM104-18; NCM105L*

NCM105L-18 - Nutrition and Diet Therapy Lab**1 unit**

This course deals with the study of food in relation to health. It covers nutrients and other substances and their action, and interaction and balance in relation to health and diseases and the process by which organism ingests, digests, absorbs, transports, utilizes and excretes food substances. It will also focus in the therapeutic and food service aspects of the delivery of nutritional services in hospitals and other healthcare institutions. *Pre-req: CHM073, CHM072L, AnaPhys003, AnaPhys002L, McroPra061L; Co-req: NCM104-18, NCM105-18, NCM106-18*

NCM106-18 - Pharmacology**3 units**

It deals with the basic concepts and principles of pharmacology involved in the nursing practice. This course aims to equip the students the necessary knowledge and values needed in safe drug administration as well as in the prevention of medication errors. Emphasis is given on how a drug works to anticipate when giving a drug to patient are of paramount importance since nursing responsibilities include administering drugs, assessing drug effects, intervening to make a drug more tolerable, and providing teaching about the drugs and the drug regimen. *Pre-req: GEC033, CHM073, CHM072L, AnaPhys003, AnaPhys002L, McroPra063. McroPra061L; Co-req: NCM105-18, NCM105L-18*

NCM107-18 - Care of Mother, Child, Adolescent (Well Client)**4 units**

This course deals with the principles and techniques of caring for the normal mothers, infants, children and family and the application of principles and concepts on family and family health nursing process. *Pre-req: AnaPhys003, AnaPhys002L, NCM100-18, NCM101-18, NCM103-18; Co-req: NCM105-18, NCM105L-18, NCM106-18*

RLE107-18 - Related Learning Experiences (MCN I)**5 units/255hrs**

This course deals with the actual application and demonstration of skills on principles and techniques of caring for the normal mothers, infants, children and family and the application of the principles and concepts on family and family health nursing process in the nursing laboratory and clinical setting. *Pre-req: None; Co-req: NCM107-18*

NCM108-18 - Health Care Ethics**3 units**

This course deals with the application of the ethico-moral and legal concepts and principles to issues that affect the practice of nursing. These provide the basis for appropriate decision making given varied situations, to prepare the learner to render effective, efficient and safe nursing care. The critical thinking process shall be used in the unit with the objective to develop the intellectual capacity to conceptualize and contextualize what students know to particular ethico-moral and legal issues. *Pre-req: NCM105-18, NCM106-18; Co-req: NCM109-18*

NCM109-18 - Care of Mother and Child at Risk or With Problems**6 units**

This course deals with the concept of disturbances and pre-existing health problems of pregnant women and the pathologic changes during intra-partum and post-partum periods. This course further deals with the common problems occurring during infancy to adolescent stage. *Pre-req: NCM107-18; Co-req: NCM108-18, RLE109-18*

RLE109-18 - Related Learning Experiences (MCN II)**6 units/306hrs**

This course deals with the actual application and demonstration of skills on the concept of disturbances and pre-existing health problems of pregnant women and the pathologic changes during intra-partum and post-partum periods. This course further deals with the common problems occurring during infancy to adolescent stage. *Pre-req: RLE107-18; Co-req: NCM108-18, NCM109-18*

NCM 110-18 - Nursing Informatics**2 units**

This course deals with the use of information technology system and data standards based on nursing informatics principles/theories. It further deals with the utilization of clinical information systems in the management and decision-making of patient care. *Pre-req: NCM108-18; Co-req: NCM110L-18*

NCM110L-18 - Nursing Informatics Lab**1 unit**

This course deals with the practice application on the use of information technology system and data standards based on nursing informatics principles/theories and the utilization of clinical information systems in the management and decision-making of patient care. *Pre-req: NCM108-18; Co-req: NCM110-18*

NCM111-18 - Nursing Research I**2 units**

This is an introductory course intended to equip the nursing students with concepts, principles in research starting from an overview of the major phases of the research process. The course will include discussions from formulation to dissemination of research findings, focus on the formulation of a research problem to the selection of the research design, planning and choosing the appropriate research tools for data gathering. This course will require the group of student to present a research proposal in a colloquium with the application of knowledge and demonstration of skills and attitude in the conceptual, design and planning phases of the research process. *Pre-req: GEC003, NCM100-18, NCM108-18, NCM110-18; Co-req: RLE111-18*

RLE111-18 - Related Learning Experiences (NR I)**1 unit/51hrs**

This course will facilitate the actual application of concepts, principles in research in the formulation of a research problem to the selection of the research design, planning and choosing the appropriate research tools for data gathering and preparation of research proposal presentation through a supervised nursing research adviser. *Pre-req: GEC003, NCM100-18, NCM108-18, NCM110-18; Co-req: NCM111-18*

NCM112-18 - Care of Clients with Problems in Oxygenation, Fluids and Electrolyte, Infectious, Inflammatory and Immunologic Response, Cellular Aberration, Acute and Chronic**8 units**

This course deals with the principles and techniques of nursing care management of sick clients across lifespan with emphasis on the adult and older person, population group in any setting with alterations/ problems in oxygenation, fluid and electrolyte balance, ,infectious, Inflammatory and Immunologic Response, Cellular Aberration, Acute and Chronic. *Pre-req: AnaPhys003, AnaPhys002L, NCM100-18, NCM103-18, NCM105-18, NCM105L-18; Co-req: NCM113-18, NCM114-18, RLE113-18; RLE114-18*

RLE112-18 - Related Learning Experiences (MS I)**6 units/306hrs**

This course deals with the actual application and demonstration of skills on the principles and techniques of nursing care management of sick clients across lifespan with emphasis on the adult and older person, population group in any setting with alterations/ problems in oxygenation, fluid and electrolyte balance, infectious, Inflammatory and Immunologic Response, Cellular Aberration, Acute and Chronic in the nursing laboratory and various clinical settings. *Pre-req: None; Co-req: NCM112-18, NCM113-18, NCM114-18, RLE113-18, RLE114-18*

NCM113-18 - Community Health Nursing II (CHN II)**2 units**

This course focuses on the care of the population groups and the community as clients utilizing concepts and principles in community health development. It also describes problems, trends and issues in the Philippine and global health care systems affecting community health nursing practice. *Pre-req: NCM104-18; Co-req: RLE113-18*

RLE113-18 - Related Learning Experiences (CHN II)**1 unit/51hrs**

This course focuses on the application and demonstration on the care of the population groups and the community as clients utilizing concepts and principles in community health development in the community setting. *Pre-req: RLE104-18; Co-req: NCM113-18*

NCM114-18 - Care of the Older Person**2 units**

This course deals with the concepts, principles and techniques of nursing care management of the older person with chronic illness. *Pre-req: NCM109-18, NCM113-18; Co-req: RLE114-18*

RLE114-18 - Related Learning Experiences (COP)**1 unit/51hrs**

This course deals with the actual application and demonstration of skills on the concepts, principles and techniques of nursing care management of the older person with chronic illness. *Pre-req: RLE109-18; Co-req: NCM114-18*

RLE115-18 - Related Learning Experiences (NR II)**2 units/102hrs**

This course is a continuation of Nursing Research 1 which includes collection of data, analysis, interpretation, summary and conclusion and recommendation. Advising is done throughout the practicum sessions. The course will provide the student/group an opportunity to undergo the final research defense process to appreciate data gathering, analyze and interpret study results disseminate the findings and make recommendations based on the results of their respective studies. *Pre-req: RLE111-18; Co-req: None*

NCM116-18 - Care of Clients with Problems in Nutrition, GI Metabolism and Endocrine, Perception and Coordination, Acute and Chronic**5 units**

This course deals with the principles and techniques of nursing care management of sick clients across lifespan with emphasis on the adult and older person, population group in any setting with Problems in Nutrition, GI Metabolism and Endocrine, Perception and Coordination, Acute and Chronic. *Pre-req: NCM112-18; Co-req: RLE116-18*

RLE116-18 - Related Learning Experiences (MS II)**4 units/204hrs**

This course deals with the actual application and demonstration of nursing skills on the principles and techniques of nursing care management of sick clients across lifespan with emphasis on the adult and older person, population group in any setting with Problems in Nutrition, GI Metabolism and Endocrine, Perception and Coordination, Acute and Chronic. *Pre-req: RLE112-18; Co-req: RLE117-18*

NCM117-18 - Care of Clients with Maladaptive Patterns of Behavior, Acute and Chronic**4 units**

The course is designed to focus on health and illness across the lifespan of clients, population groups with acute and chronic psychosocial difficulties and psychiatric illnesses. *Pre-req: NCM112-18; Co-req: RLE117-18*

RLE117-18 - Related Learning Experiences (PSYCH)**4 units/204hrs**

The course is an actual application and demonstration of nursing skills specialized on health and illness across the lifespan of clients, population groups with acute and chronic psychosocial difficulties and psychiatric illnesses. *Pre-req: RLE112-18; Co-req: RLE116-18*

NCM118-18 - Nursing Care of Clients with Life Threatening Conditions/ acutely ill/multi-organ problems/high acuity and emergency situations, Acute and Chronic**4 units**

This course deals with the principles and techniques of nursing care management of sick clients across lifespan with emphasis on the adult and older person, population group in any setting with life threatening conditions, acutely ill, multi-organ problems, high acuity, and emergency health conditions. *Pre-req: NCM117-18; Co-req: NCM119-18, RLE118-18*

RLE118-18 - Related Learning Experiences (EN)**5 units/255hrs**

This course deals with the actual application and demonstration of nursing skills on the principles and techniques of nursing care management of sick clients across lifespan with emphasis on the adult and older person, population group in any setting with life threatening conditions, acutely ill, multi-organ problems, high acuity and emergency health conditions in various clinical and community settings. *Pre-req: None; Co-req: NCM118-18; RLE119-18*

NCM119-18 - Nursing Leadership and Management**4 units**

This course deals with the concepts, principles, theories and methods of developing nursing leaders and managers in the hospital and community-based settings. It also includes ethico-moral/legal aspects of health care and nursing practice and the nurses' responsibilities for personal and professional growth. *Pre-req: NCM117-18; Co-req: NCM118-18, RLE119-18*

RLE119-18 - Related Learning Experiences (NLM)**3 units/153hrs**

This course deals with the actual application and demonstration of skills on the concepts, principles, theories and methods of developing nursing leaders and managers in the hospital and community-based settings. It also includes ethico-moral/legal aspects of health care and nursing practice and the nurses' responsibilities for personal and professional growth. The course requires students to organize and facilitate seminars and trainings on nursing practice trends and issues. *Pre-req: None; Co-req: RLE118-18*

NCM120-18 - Decent Work Employment and Transcultural Nursing**3 units**

This course deals with the concept and principles of decent work employment for nursing practice opportunities. It further includes transcultural nursing concepts, assessment, and the role of culture in understanding and caring for diverse nursing practice. *Pre-req: None; Co-req: NCM119-18*

NCM121-18 - Disaster Preparedness Nursing**2 units**

This course deals with the principles and techniques of disaster nursing management to sick clients across lifespan with emphasis on the adult and older person, population group in any setting. *Pre-req: NCM120-18; Co-req: NCM122-18, RLE121-18*

RLE121-18 - Related Learning Experiences (DN)**1 unit/51hrs**

This course deals with the actual application and demonstration of skills on the principles and techniques of disaster nursing management to sick clients across lifespan with emphasis on the adult and older person, population group in any setting. *Pre-req: RLE119-18; Co-req: NCM121-18, NCM122-18*

NCM122-18 - Intensive Nursing Practicum (Hospital & Community Setting)**8 unit/408hrs**

Actual application of the theories, principles and concepts of clinical nursing practice to groups of clients in varied settings to refine nursing skills in the different basic nursing services including community. Emphasis is placed on integrating the multiple roles of professional nursing as a vehicle to enhance critical thinking and communication skills. *Pre-req: None; Co-req: NCM121-18, NCM122-18*

ANAPHYS003 - Anatomy and Physiology**3 units**

This course deals with the physiologic concepts, principles and basic anatomical structure of the human body. *Pre-req: None; Co-req: AnaPhys002L*

ANAPHYS002L - Anatomy and Physiology Lab**2 units**

This course deals with the application of the physiologic concepts, principles and basic anatomical structure of the human body through laboratory activities. *Pre-req: None; Co-req: AnaPhys003*

CHM073 - Biochemistry**3 units**

This course is an introduction to the atomic structure and chemical bond formation; the study of fundamental principles of chemistry; structure and properties of gases, solids, and liquids, chemical reactions; thermochemistry and electrochemistry. *Pre-req: None; Co-req: CHM072L*

CHM072L - Biochemistry Lab**2 units**

This course is an application of the atomic structure and chemical bond formation; the study of fundamental principles of chemistry; structure and properties of gases, solids, and liquids, chemical reactions; thermochemistry and electrochemistry through laboratory activities. *Pre-req: None; Co-req: CHM073*

MCROPRA063 - Microbiology and Parasitology**3 units**

This course is designed to assist students in the study of important microorganisms and parasites. It explains the physiology and pathogenic properties of bacteria, fungi and viruses as an introduction to disease causation, their biology, the infections they cause, host response to these infections and their mode of transmission, prevention, treatment and nursing responsibilities. *Pre-req: AnaPhys003; Co-req: CHM073, McroPra061L, NCM101-18*

MCROPRA061L - Microbiology and Parasitology Lab**1 unit**

This course is an actual laboratory experiences to the students on specimen collection, handling and processing of specimens for isolation and identification of microorganisms and parasites involved in the infectious processes. *Pre-req: AnaPhys002L; Co-req: CHM072L, McroPra063, NCM101-18*

PHL093N - Logic and Critical Thinking**3 units**

This course introduces the fundamental principles, laws and methods of correct thinking and a brief survey of the historical background of philosophy. The course includes the three fundamental operations of the mind: simple apprehension, judgment and reasoning and the eight syllogistic rules. *Pre-req: None; Co-req: None*

VI. COMPUTER STUDIES AND TECHNOLOGY PROGRAM

A. COMMON COMPUTING COURSES

COMP042 - Data Structures and Algorithms**2 units**

This course covers the standard data representation and algorithms to solve computing problems efficiently with respect to space requirements and time complexity of algorithm. The topics included are Stacks, Queues, Trees, Graphs, Maps and Sets. Thorough discussion of sorting and searching algorithms and hashing is also covered. *Pre-req: CSIT332; Co-req: COMP041L*

COMP041L - Data Structures and Algorithms Lab**1 unit**

This course teaches the student on how to develop a software solution to a problem using appropriate data structures and algorithm. The students should be able to demonstrate as well that the algorithm used in solving the problem is the most efficient through defending his/her work. *Pre-req: CSIT331L; Co-req: COMP042*

COMP112 - Information Management**2 units**

The course covers topics in information management, database design, data modeling, SQL, and implementation using a relational database system. *Pre-req: COMP042, COMP041L; Co-req: COMP111L*

COMP111L - Information Management Lab**1 unit**

The course is the actual laboratory application of the different theories discussed in COMP112 (Information Management). At the end of the course, the students are able to design a database using Database Management System suitable to the data requirements of a system. *Pre-req: COMP041L; Co-req: COMP112L*

COMP303 - Introduction to Computing**3 units**

This course provides an overview on the computing industry and computing profession, including research and application in different fields. These fields include appreciation in sciences, environment, and gaming: history of computing; and knowledge of key components of computer systems (organization and architecture, malware, computer security, internet and internet protocols, HTML4/5, and CSS). At the end of this course, the students are able to compare and contrast the history and impact of computing with the current trends on technology. *Pre-req: None; Co-req: None*

COMP312 - Computer Programming I**2 units**

The course covers the use of general purpose programming to solve problems. The emphasis is to train students to design, implement, test, and debug programs intended to solve computing problems using fundamental programming constructs. It discusses flowcharting and pseudo-coding as requirements in problem solving using C language. These tools are intended to develop the student's analytical and logical thinking. This course also focuses on simple data types, control structures, functions and introduction to array and string data structures as well as debugging techniques. *Pre-req: None; Co-req: COMP311L*

COMP311L - Computer Programming I Lab**1 unit**

This course provides students an avenue to apply the theories that have been discussed in COMP312 (Computer Programming I). Intense laboratory activities are provided to the students to hone them to have analytical and logical thinking. At the end of this course, the students are able to create and evaluate solutions to programming problems. *Pre-req: None; Co-req: COMP312*

COMP332 - Computer Programming II**2 units**

This course helps students develop skills in problem solving using a general purpose programming language. The emphasis is to train students to design, implement, test, and debug programs intended to solve computing problems using basic data structures and standard libraries. *Pre-req: COMP312, COMP311L; Co-req: COMP331L*

COMP331L - Computer Programming II Lab**1 unit**

The course is the actual laboratory application of the different theories discussed in COMP332 (Computer Programming II). At the end of the course, the students are able to create Object-Oriented Based solutions to programming problems. *Pre-req: COMP311L; Co-req: COMP332*

COMP462 - Applications Development and Emerging Technologies**2 units**

This course deals with the development of applications using web, mobile, and emerging technologies, giving emphasis on requirements management, interface design, usability, testing, and deployment with considerations on ethical and legal factors. *Pre-req: CSIT392; Co-req: COMP461L*

COMP461L - Applications Development and Emerging Technologies Lab**1 unit**

This course enables the students to develop applications using cutting edge or emerging technologies, which include hardware devices and software library APIs. *Pre-req: CSIT391L; Co-req: COMP462*

B. COMPUTER SCIENCE PROFESSIONAL COURSES**CSIT142A - Software Engineering I****2 units**

The focus of this course is on the analysis of techniques dealing with analysis, planning, design and implementation, testing and implementation, testing and maintenance. This incorporates concepts of modularity and sound program design, principles of structured design and structured programming as well as new techniques in programming. *Pre-req: COMP112; Co-req: CSIT141A-L*

CSIT141A-L - Software Engineering I Lab**1 unit**

This course provides students an avenue to apply the principles of CSIT142A (Software Engineering I). At the end of this course, the students are able to design a system incorporating the techniques used in programming. *Pre-req: COMP111L; Co-req: CSIT142A*

CSIT142B - Software Engineering II**2 units**

The focus of this course is on the improvement of existing software using appropriate design pattern. This includes topics of test case, testing practices, and test reports. *Pre-req: CSIT142A, CSIT141A-L; Co-req: CSIT141B-L*

CSIT141B-L - Software Engineering II Lab**1 unit**

This course provides students an avenue to apply the theories that have been discussed in CSIT142B (Software Engineering II). Laboratory activities are provided to the students to have an actual practice of testing a software. At the end of this course, the students are able to test, document and report test results of the software. *Pre-req: CSIT141A-L; Co-req: CSIT142B*

CSIT153 - Algorithms and Complexity**3 units**

This course covers the general techniques in designing correct and efficient algorithms, basic algorithmic analysis, algorithmic strategies, sorting and searching, graph algorithms, and geometric algorithms. This also teaches the students on the formal methods for proving the correctness and analyzing the complexity of such algorithms using a program verification tool like BLAST model checker. *Pre-req: COMP042, COMP041L; Co-req: None*

CSIT163 - Architecture and Organization**3 units**

This course discusses basic architecture of modern computers, interaction between computer hardware and software at various levels, and performance evaluation and metrics. Instruction set design, computer arithmetic is also discussed. Data path and control unit design for RISC Processors are covered in detail. The laboratory work includes the design and implementation of a 16-bit RISC CPU using an FPGA development system and VHDL. *Pre-req: CSIT253, CSIT251L; Co-req: None*

CSIT183 - Social Issues and Professional Practice**3 units**

This course will tackle the global use of computers, communications, information systems, and information technology which continue to rise with new applications and technologies developing rapidly. The course will also examine the role of these systems and technologies, ways they can change the world, the dangers and the protections, and professional responsibilities. Topics will include intellectual property, privacy, security, and accessibility. Students will be able to apply the social, legal, and ethical issues and the frameworks available for assessing systems and technologies. *Pre-req: CSIT382, CSIT381L (for BSCS), CSIT342B, CSIT341B-L (for BSIT only); Co-req: None*

CSIT192 - Operating Systems**2 units**

This course provides an introduction to the concepts, theories and components that serve as the bases for the design of classical and modern operating systems. Topics include process and memory management, process synchronization and deadlocks. *Pre-req: CSIT142B; Co-req: CSIT191L*

CSIT191L - Operating Systems Lab**1 unit**

The course covers the basics of Linux operating system and also includes simulation of management performed by the operating system. *Pre-req: CSIT141B-L; Co-req: CSIT192*

CSIT252 - Networking**2 units**

The course focuses on the data communication between computer installation and system transmission, media and methods, switching types, network topology, line control procedures, routing and flow control, line capacity assignment. It also covers file transfer protocols. Basic network interface components, network protocols, internetworking devices, selecting, installing, managing and using networks, network security and computer network design. *Pre-req: COMP303; Co-req: CSIT251L*

CSIT251L - Networking Lab**1 unit**

The course will teach the students how to create different types of cabling used in networking. This will also cover the creation of a single multiple LAN's as well as configuring a client and server operating systems and connects the client machine to the server. At the end of the course the students are ready prepared for NC II Computer and Hardware Servicing. *Pre-req: COMP303; Co-req: CSIT252*

CSIT273 - Automata Theory and Formal Languages**3 units**

This course introduces the formal models of computing and their relation to formal languages. The course will tackle fundamental concepts in automata theory and formal languages including grammar, finite automaton, regular expression, formal language, pushdown automaton, and Turing machine. *Pre-req: CSIT392, CSIT391L; Co-req: None*

CSIT323A - Discrete Structures I**3 units**

This course covers the mathematics that underlies most of computer science, which are the fundamental mathematical concepts and reasoning along with problem solving techniques. Topics covered include, inferencing, proof methods, propositional logic, predicate logic, set operations, binary relations, graphs, and functions. *Pre-req: COMP042, COMP041L; Co-req: None*

CSIT323B - Discrete Structures II**3 units**

This course provides the background in combinatorics and probability theory required in design and analysis of algorithms, in system analysis, and in other areas of computer science. Topics include permutations, combinations of a set, probabilities using counting and Bayes Theorem. At the end of the course, the students are able to solve equations involving recurrence. *Pre-req: CSIT323A; Co-req: None*

CSIT332 - Intro to Human Computer Interaction**2 units**

This course is intended to introduce the student to the basic concepts of human-computer interaction. This will cover also the integration of theories and methodologies from computer science, cognitive psychology, design, and other areas related to this field. The course will require students to do case studies to exemplify the methods presented and to lend a context to the issues discussed. The student will gain principles and skills for designing and evaluating interactive systems. *Pre-req: None; Co-req: CSIT331L*

CSIT331L - Intro to Human Computer Interaction Lab**1 unit**

In this course, students will learn how to design technologies that bring user interactive environment. Students learn several techniques for rapidly prototyping and evaluating multiple interface alternatives and why rapid prototyping and comparative evaluation are essential to excellent interaction design. *Pre-req: None; Co-req: CSIT332*

CSIT342 - Information Assurance and Security**2 units**

This course provides the foundations of information assurance and security from a business prospective. Topics covered include human factors, compliance with regulations, personnel security, risk assessment and ethical considerations. *Pre-req: CSIT142B; Co-req: CSIT341L*

CSIT341L - Information Assurance and Security Lab**1 unit**

The course covers the different phases of complete security testing for companies, through development of security products and implement a new security product. The tests can be head-to-head comparison of products or help in developing new products. Types of testing will be Students driven testing, Product testing, Product comparison testing and Product reviews. *Pre-req: CSIT141B-L; Co-req: CSIT342*

CSIT362 - Object-Oriented Programming**2 units**

This course teaches students how to develop Object-Oriented (OO) applications. Topics include the programming language syntax, OO programming using OO programming language, exception handling, file input/output, threads, collection classes, and networking. *Pre-req: COMP332, COMP331L; Co-req: CSIT361L*

CSIT361L - Object-Oriented Programming Lab**1 unit**

The course is the actual laboratory application of the different theories discussed in CSIT362 (Object-Oriented Programming). At the end of the course, the students are able to develop and test Java applications using an editor to solve computational problems where the expression of an algorithm is required. *Pre-req: COMP331L; Co-req: CSIT362*

CSIT382 - Software Quality Assurance**2 units**

This course focuses on techniques for ensuring software quality. Quality assurance in this course is viewed as an activity that runs through the entire software development process: understanding the needs of clients and users; analyzing and documenting requirements; verifying and validating solutions through testing. It covers the major activities of software quality assurance such as requirements elicitation and user-centered development, requirements analysis, verification and validation, and quality management. *Pre-req: CSIT142B; Co-req: CSIT381L*

CSIT381L - Software Quality Assurance Lab**1 unit**

The course will provide students different hands on experiences on software quality assurance systems before, during, and after software development. This will give students an experience of applying software quality process and approaches to assure software quality. To assure sufficient planning, reporting, and control that affects the development of software products, the course will use software quality assurance tools. *Pre-req: CSIT141B-L; Co-req: CSIT382*

CSIT392 - Programming Languages**2 units**

This course provides students the fundamental features and concepts to different programming languages. Topics include overview of programming languages, Introduction to language translation, type systems, data and execution control, declaration and modularity, and syntax and semantics. *Pre-req: CSIT153; Co-req: CSIT391L*

CSIT391L - Programming Languages Lab**1 unit**

The course is intended to teach the students the basic techniques that underlie the practice of Compiler Construction. The course will introduce the theory and tools that can be used in order to perform syntax-directed translation of a high-level programming language into an executable code. At the end of this course, the students are able to create mini-translators using PLY (Python Lex-Yacc). *Pre-req: None; Co-req: CSIT392*

CSIT401A-L - Robotics I**1 unit**

The course main goal is to investigate the applicability of modern systems, imaging and control methods to practical situations in the area of robotics. Students will use robotics to explore the fundamentals of engineering and electronics. Laboratory experiments will require students to build robots to demonstrate these principles. The design process will be emphasized as the robots are tested and designs are modified. Students start by learning basic robot building instructions, programming and movement then move on to working with sensors and more complex robot behaviors. *Pre-req: CSIT252, CSIT251L; Co-req: None*

CSIT401B-L - Robotics II**1 unit**

This course will allow students to design, engineer and program robots. It is designed to explore the past, current and future use of automation technology in industry and everyday use. Students will receive a comprehensive overview of robotic systems and the subsystems that comprise them. *Pre-req: CSIT401A-L; Co-req: None*

CS-THS1 - CS Thesis I**3 units**

This course emphasizes on the development of a step-by step thesis proposal and documentation of chapter 1, 2, 3, 4 of a thesis document. *Pre-req: CSIT382, CSIT381L; Co-req: None*

CS-THS2 - CS Thesis II**3 units**

This course is a continuation of CS-TH1 (CS Thesis I). The students are expected to come up with an original software that is feasible. Chapter 4 and 5 are to be finished by the students to complete their Thesis documentation. *Pre-req: CS-THS1; Co-req: MATH293*

CS-PRC6 - Internship (600hrs)**6 units**

This course focuses on the proper training of a student in an industry and commercial-based environment. This course covers actual systems work related to, directly or indirectly, the field of information technology. The course allows the students exposure to an integration of all aspects of the information technology discipline through a synergistic partnership with the computing industry. *Pre-req: CS-THS2; Co-req: None*

CSElec-1 - CS Elective 1**3 units**

The course is intended to teach students how to build learning machines and the business of developing tools to analyze the numerous increasing data sources which involves developing a systematic understanding of how we can learn from data. Also, it covers theory and practices concerned with the design, analysis, and development of methods for the classification or description of patterns, objects, signals, and processes. It discusses recent developments in modeling using Bayesian techniques, neural networks, decision trees, fuzzy logic, and syntactic structures that have accelerated the growth of pattern recognition applications. *Pre-req: CSIT153; Co-req: None*

CSElec-2 - CS Elective 2**3 units**

The course is intended to teach students the basic concepts, principles, methods, implementation techniques, and applications of data mining, with a focus on two major data mining functions: pattern discovery and cluster analysis. *Pre-req: CSElec-1; Co-req: None*

CSElec-3 - CS Elective 3**3 units**

This course will discuss how the Web works when we visit a website, what the MVC pattern is, it will help students get gradually familiar with HTML5, CSS, Javascript, JQuery and Bootstrap. At the end of the course, the students are able to design and develop their own web pages. *Pre-req: CSElec-2; Co-req: None*

C. INFORMATION TECHNOLOGY PROFESSIONAL COURSES**CSIT111A-L - Web Technologies I****1 unit**

This course will discuss how the Web works when we visit a website, what the MVC pattern is, it will help students get gradually familiar with HTML5, CSS, Javascript, JQuery and Bootstrap. At the end of the course, the students are able to design and develop their own web pages. *Pre req: COMP332, COMP331L; Co-req: None*

CSIT111B-L - Web Technologies II**1 unit**

This course will train students to Plan and Design a Web Application. Implementing a Web Application using PHP, MySQL, Apache and AJAX. Web Site Management with Content Management Systems (CMS). *Pre req: CSIT111A-L; Co-req: None*

CSIT121A-L - Mobile Programming**1 unit**

This course will provide the needed preparation for the students in understanding Android programming. The programming approach here will be based on Java, since Android uses Java as its based language, and most of its API relies heavily on Java Foundation Classes including the Multithreading, File Manipulation and Exception Handling. Focus on mastering the concept of Android User Interface Design and its principles. Students will be equipped with knowledge about Android Services & APIs, Activities, different Views and Controls, DBMS using SQLite for simple CRUD (Create, Read, Update and Delete). *Pre req: CSIT362A, CSIT361A-L; Co-req: None*

CSIT121B-L - Mobile Programming II**1 unit**

This course is the continuation of CSIT121A-L (Mobile Programming I). The programming approach here will be based on Java, since Android uses Java as its based language, and most of its API relies heavily on Java Foundation Classes including the Multithreading, File Manipulation and Exception Handling. Focus on mastering the concept of Android User Interface Design and its principles. Students will be equipped with knowledge about Android Services & APIs, Activities, different Views and Controls, DBMS using SQLite for simple CRUD (Create, Read, Update and Delete) operations and integrating of CRUD processing thru the Cloud framework. *Pre req: CSIT121A-L; Co-req: None*

CSIT132 - Quantitative Methods**2 units**

This course discusses the range of mathematical and statistical techniques used to analyse typical problems in technology. Topics include data collection, descriptive statistics calculation, hypo testing, sampling, continuous and discrete distribution, probability, ANOVA, and related topics. *Pre req: COMP042, COMP041L; Co-req: CSIT131L*

CSIT131L - Quantitative Methods Lab**1 unit**

This course is the application of the theories in CSIT132 (Quantitative Methods). At the end of this course students will be able to develop and explore new quantitative tools to improve data analysis of data and technology research. Using statistical theory, simulation studies, and applied examples. *Pre req: COMP042, COMP041L; co-req: CSIT132*

CSIT173 - System Analysis and Design**3 units**

The course covers the different phases of systems development focusing on analysis and design. The course also emphasizes on the tools and principles of systems development. Students are expected to understand the rudiments of systems development and develop a feasibility study. *Pre req: CSIT312, CSIT311L; Co-req: None*

CSIT183 - Social Issues and Professional Practice**3 units**

This course studies the social impact, implications, and effects of computers, and the responsibilities of computer professionals in directing the emerging technology. Specific topics include an overview of the history of computing, computer applications and their impact, the computing profession, the legal and ethical responsibilities of professionals, and careers in computing. *Pre req: CSIT342B, CSIT341B-L*

CSIT202 - Systems Integration and Architecture**2 units**

This course deals with the development of skills in enterprise architecture planning (EAP) and in enterprise application integration (EAI). Using EAP, prepares students to learn how to create architectures that define and describe the data, applications, and technology needed to support organizations. In applying EAI, students will gain experience in creating strategic business solutions using Web services and middleware to integrate the functionality of an organization's existing applications, commercial packaged applications, and new code. *Pre req: CSIT173; Co-req: CSIT201L*

CSIT201L - Systems Integration and Architecture Lab**1 unit**

This course is the application of Architecture design laboratory with concentration on development of intellectual and professional skills of analysis, synthesis, and evaluation in design problem solving in programming, site and building design using various media appropriate to the exploration. Focus on the inter-relatedness of the various components of building structure, accessibility, life safety and enclosure systems, integration of environmental controls and the contribution of materials and methods of construction to the design process. *Pre req: CSIT173; Co-req: CSIT202*

CSIT252A - Networking I**2 units**

The course focuses on how data is transmitted between computers. It covers OSI and TCP/IP model and how these models apply to contemporary communication protocols. This course also explains different contexts of networking such as topology, bandwidth, and distance. It also explains the internetworking devices and media of network systems as well as the different standards and standardizing bodies and how it impacts networking technology. *Pre req: COMP303; Co-req: CSIT251A-L*

CSIT251A-L - Networking I Lab**1 unit**

This course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. This course intends to demonstrate the principles of IP addressing and fundamentals of Ethernet concepts, media, and operations. By the end of the course, students will be able to build simple LANs and WANs, perform basic configurations for routers and switches, and implement IPv4 and IPv6 addressing schemes. *Pre req: COMP303; Co-req: CSIT252A*

CSIT252B - Networking II**2 units**

This course extends your understanding of computer networking. It deepens your knowledge of Routing Protocols and introduces you to switched networks. You will develop skills in the Command Line Interface configuration of switches, port security, VLANs, VTP and inter-VLAN routing as well switch security, routing and MLS. It deepens your knowledge of wireless networks and also Wide Area Networks with emphasis on directly connected serial links, PPP authentication and redundancies technologies. You will develop skills in the configuration of advanced IP addressing techniques and the implementation of Access Control Lists. *Pre req: CSIT252A; Co-req: CSIT251B-L*

CSIT251B-L - Networking II Lab**1 unit**

Describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. *Pre req: CSIT251A-L; Co-req: CSIT252B*

CSIT312 - Database Systems**2 units**

This course deals with the Distributed database design, query and transaction processing, data integration, data warehousing, data cleansing, management of spatial data, and data from large scale distributed devices. *Pre req: COMP112; Co-req: CSIT311L*

CSIT311L - Database Systems Lab**1 unit**

This course is the actual application of designing, query and transaction processing, data integration, data warehousing, data cleansing, management of spatial data, and data from large scale distributed devices of Distributed databases. At the end of the course students will be able to learn how to create and design databases for a system. *Pre req: COMP111L; Co-req: CSIT312*

CSIT332 - Introduction to Human Computer Interaction**2 units**

The course will discuss the User-centered software design; (1) principles of and methods for understanding user needs, designing and prototyping interface solutions, and evaluating their usability, (2) their applications in designing web-based, mobile, and embodied interfaces. *Pre-req: None; Co-req: CSIT331L*

CSIT331L - Introduction to Human Computer Interaction Lab**1 unit**

In this course, students will learn how to design technologies that bring user interactive environment. Students learn several techniques for rapidly prototyping and evaluating multiple interface alternatives and why rapid prototyping and comparative evaluation are essential to excellent interaction design. *Pre-req: None; Co-req: CSIT332*

CSIT342A - Information Assurance and Security I**2 units**

Information systems security models, software security and systems lifecycle management, policy development, personnel responsibilities, contingency planning, physical security, administrative controls, and information security assessment methods. *Pre req: CSIT372; Co-req: CSIT341A-L*

CSIT341A-L - Information Assurance and Security I Lab**1 unit**

The course covers the different phases of complete security testing for companies, through development of security products and implement a new security product. The tests can be head-to-head comparison of products or help in developing new products. Types of testing will be Students driven testing, Product testing, Product comparison testing and Product reviews. *Pre req: CSIT371L; Co-req: CSIT342A*

CSIT342B - Information Assurance and Security II**2 units**

This course provides an in-depth examination of the fundamental principles of information assurance and security. While the topics are focused on practical issues. Students will cover a range of topics, including authentication, integrity, and confidentiality of distributed systems, network security, malware, privacy, intrusion detection, and intellectual property protection. *Pre req: CSIT342A; Co-req: CSIT341B-L, ITELEC-3*

CSIT341B-L - Information Assurance and Security II Lab**1 unit**

This course will require students to do a research study and solve challenging problems in wireless networks and cyber security, with a particular focus on authentication, integrity, and confidentiality of distributed systems, network security, malware, privacy, intrusion detection, and intellectual property protection. *Pre req: CSIT341A-L; Co-req: CSIT342B, ITELEC-3*

CSIT362A - Object-Oriented Programming I**2 units**

This course provides the students with the fundamental understanding of object-oriented programming using Java. This course intends to increase the student's knowledge and skills needed to develop reusable quality programs, instruct students on the use of object oriented tools such as UML for modeling problem solutions. *Pre req: COMP332; Co-req: CSIT361A-L*

CSIT361A-L - Object-Oriented Programming I Lab**1 unit**

This course will train the students to write simple to complex java applications by using classes, objects, methods and instance variables. *Pre req: COMP331L; Co-req: CSIT362A*

CSIT362B - Object-Oriented Programming II**2 units**

This course provides the students with the advanced understanding of object-oriented programming using Java. This course intends to increase the student's knowledge and skills needed to develop reusable quality programs, instruct students on the use of object oriented tools such as UML for modeling problem solutions. *Pre req: CSIT362A; Co-req: CSIT361B-L*

CSIT361B-L - Object-Oriented Programming II Lab**1 unit**

This course is the actual application of the object-oriented programming using Java. This course intends to increase the student's knowledge and skills needed to develop reusable quality programs, instruct students on the use of object oriented tools such as UML for modeling problem solutions. *Pre req: CSIT361A-L; Co-req: CSIT362B*

CSIT372 - Integrative Programming and Technologies I**2 units**

The course addresses the use of architectures, application programming interfaces and programming practices to facilitate the management, integration and security of the systems that support an organization. *Pre req: CSIT362A; Co-req: CSIT371L*

CSIT371L - Integrative Programming and Technologies I Lab**1 unit**

The course content is based on open source software such as PHP or closed source software such Active Server Pages (ASP). The software to use will be Active Server Pages (ASP) as a server side scripting architecture for building dynamic web applications, and an ideal environment for building web based commerce solutions. *Pre req: CSIT361A-L; Co-req: CSIT372*

CSIT401A-L - Robotics I**1 unit**

This is an introductory course in industrial robots. There are two main classes of industrial robots - continuous path robots and pick-and-place robots. Students in this course will learn to operate, program, and service modern continuous path industrial robots. Students will also learn to program pneumatic pick-and-place robots using current industrial standards and materials. Proper robot safety procedures will be emphasized throughout the course. *Pre req: CSIT252A, CSIT251A-L; Co-req: None*

CSIT401B-L - Robotics II**1 unit**

Coordinate frame transformations, kinematic analysis of robot design, formulation of matrices to develop robot arm transforms, extraction of analytic joint angle solution equations from both forward and inverse kinematic matrices; planning trajectories in joint space to accomplish a task in global space. *Pre req: CSIT401A-L; Co-req: None*

CSIT423 - Systems Administration and Maintenance**3 units**

This course focuses on administration of operating systems in a client-server technology (Windows and Linux on virtual machine), installation and maintenance. It prepares students to installation of Windows Server, NTFS file system and folder permissions, Domain Name System, Active Directory, local and domain Group Policy, Windows Terminal Services, Internet Security and Acceleration Server, Internet Information Services, communications and networking. An introduction to Linux, installing Ubuntu, advanced usage and managing Ubuntu, terminal, working with Windows, system administration, configuration of server: WWW, DHCP, DNS, Samba, NFS, emails and printers. *Pre req: CSIT362B, CSIT361B-L; Co-req: None*

IT-CP1 - Capstone Project I**3 units**

This course will apply theoretical knowledge acquired during the previous core and professional courses to a project involving actual data in a realistic setting. *Pre req: CSIT202, CSIT201L, CSIT342B, CSIT341B-L; Co-req: None*

IT-CP2 - Capstone Project II**3 units**

Capstone design project: Final design and implementation of the data and research on capstone. *Pre req: IT-CP1; Co-req: None*

IT-PRC6 - Practicum (600hrs)**6 units**

This course focuses on the proper training of a student in an industry and commercial-based environment. This course covers actual systems work related to directly or indirectly, the field of information technology. The course allows the students exposure to an integration of all aspects of the information technology discipline through a synergistic partnership with the computing industry. *Pre req: COMP462, COMP461L, CSIT342B, CSIT341B-L; Co-req: None*

D. ENTERTAINMENT AND MULTIMEDIA COMPUTING CORE COURSES**EMCT002 - Freehand and Digital Drawing****2 units**

This course acquaints students on fundamental image development using both traditional and modern drawing tools, particularly freehand drawing, one of the basics in effective design rendition for higher multimedia development levels. The course also explores on drawing methods and topics such as morphological analysis, still life drawing, light and shade principle, perspective drawing, color theory, and color representation. These serve as guide for heuristic development of design media and production of distinctive images and videos. *Pre-req: None; Co-req: EMCT001L*

EMCT001L - Freehand and Digital Drawing Lab**1 unit**

This course will enable students to use basic drawing theories and techniques using traditional and modern (software-based) drawing tools. *Pre-req: None; Co-req: EMCT002*

EMCT012 - Introduction to Game Design and Development**2 units**

This course provides an overview on the entire game development process—from conception to production. The history of game development in local and international settings, members and responsibilities of members of a game development team, and industry requirements for creating game design documents (GDD) and technical design documents (TDD) shall also be discussed. *Pre-req: EMCT002; Co-req: EMCT011L*

EMCT011L - Introduction to Game Design and Development Lab**1 unit**

This course will provide an avenue for the student to experience the entire game development process—from conception to production. Students will get the chance to experience the development of game design, including game play, storytelling, challenges, and interactive design, and game development. *Pre-req: EMCT001L; Co-req: EMCT012*

EMCT023 - Usability HCI, and User Interaction Design**3 units**

The course focuses on techniques in making software more intuitive to use and easier for target users to learn its functionalities and features. It touches the principles of human computer interaction and graphic user interface design techniques. This course will allow students to choose from a variety of HCI techniques and UI elements in game design and implementation. *Pre-req: COMP332, COMP331; Co-req: None*

EMCT032 - Computer Graphics Programming**2 units**

This course will give students introductory lessons on the mathematics of computer graphics as well as its application in creating 3D graphics programs through top-down and bottom-up learning approaches. Topics included are requisite review of mathematics concepts, graphic transformations, rendering of primitive geometries, shading and illumination, and usage of OpenGL. *Pre-req: COMP042; Co-req: EMCT031L*

EMCT031L - Computer Graphics Programming Lab**1 unit**

This course will be an opportunity for students to develop a software project using graphics libraries, standard game development tools written using a coding standard. *Pre-req: COMP041L; Co-req: EMCT032*

EMCT042 - Principles of 2D Animation**2 units**

This course reviews the fundamentals of animation and design and production of 2D digital animation. Explored as well are the ranges of possibilities and limitations of dynamic media and digital animation. *Pre-req: EMCT012; Co-req: EMCT041L*

EMCT041L - Principles of 2D Animation Lab**1 unit**

This course will allow the students to create 2D animation with assets developed using animation principles. *Pre-req: EMCT011L; Co-req: EMCT042*

EMCT052 - Audio Design and Sound Engineering**2 units**

The course allows students to learn core production skills of recording, digitizing, editing, and manipulating of sound samples, acoustics, and digital sound theory. Recognizing the value of sound as a crucial element in multimedia. It will enable students to create, manipulate, engineer, and orchestrate appropriate sound and sound effects for different genres and themes. *Pre-req: EMCT012; Co-req: EMCT051L*

EMCT051L - Audio Design and Sound Engineering Lab**1 unit**

The course allows students to record, digitize, edit, and manipulate sound samples, acoustics, and digital sound for different genres and themes. *Pre-req: EMCT011L; Co-req: EMCT052*

EMCT062 - Script Writing and Storyboard Design**2 units**

It is in this course that students are trained to develop blueprints of proposed videos indicating timeline of events in a story, dialogue, visual treatment, and style. Students are also trained in designing story boards for subsequent use in animation or game development projects. *Pre-req: GEC063; Co-req: EMCT061L*

EMCT061L - Script Writing and Storyboard Design Lab**1 unit**

This course will allow students to put in action the developed blueprints and storyboard of proposed videos, animation or game development projects. *Pre-req: GEC063; Co-req: EMCT062*

EMCT072 - Principles of 3D Animation**2 units**

This course introduced students to the fundamentals of 3D animation, including techniques as key frame animation and motion capture animation. Keen sense of observation to understand motion, movement, and acting and its impact on creating moods and communication non-verbal messages will also be developed in this course. *Pre-req: EMCT042; Co-req: EMCT071L*

EMCT071L - Principles of 3D Animation Lab**1 unit**

This course focuses on the practical application of 3D animation, including techniques as key frame animation and motion capture animation. A 3D animation with assets developed using animation principles will be the final outcome of this course. *Pre-req: EMCT041L; Co-req: EMCT072*

EMCT083 - Design and Production Process**2 units**

This course tackles the design and production process in the game development field. It covers the game production process, specifically the required steps from start to finish. *Pre-req: EMCT012; EMCT011L; Co-req: None*

E. DIGITAL ANIMATION TECHNOLOGY PROFESSIONAL COURSES**DATC012 - Image and Video Processing****2 units**

This course encourages student learning of fundamental operations on images and videos. The image processing part covers topics as geometrical transformations, color corrections, image recovery, compositing, segmentation, differencing, morphing, and

alignments. Meanwhile, video processing includes audio-video splitting, synchronization, and video transformation. *Pre-req: COMP042; Co-req: DATC011L*

DATC011L - Image and Video Processing Lab

1 unit

This course will allow students to apply the fundamental operations on images and videos. The image processing part covers topics as geometrical transformations, color, corrections, image recovery, compositing, segmentation, differencing, morphing, and alignments. Meanwhile, video processing includes audio-video splitting, synchronization, and video transformation. *Pre-req: COMP041L; Co-req: DATC012*

DATC022 - Advanced 2D Animation

2 units

This course builds on the foundations and principles of 2D animation. Parts of this course are advanced techniques in preparation of 2D animation assets for use in games, which includes automatic generation of assets through programming. *Pre-req: EMCT042; Co-req: DATC021L*

DATC021L - Advanced 2D Animation Lab

1 unit

These course will prepare students with the actual application of the principles 2D animations. Parts of this course focus more on the advanced techniques in preparation of 2D animation assets for use in games, which includes automatic generation of assets for use in games, which includes automatic generation of assets through programming. *Pre-req: EMCT041L; Co-req: DATC022*

DATC032 - Lighting and Effects

2 units

In this course, fundamentals of lighting controls and artificial visual effects are learned by students, in particular its application to 3D animation. Students are also taught proper and practical use of artificial effects to improve on portions of animations. *Pre-req: DATC082; Co-req: DATC031L*

DATC031L - Lighting and Effects Lab

1 unit

In this course, students will apply the lighting controls and artificial visual effects to 3D animation. Students are allowed hands-on control of light and light resources using appropriate 3D animation suites. *Pre-req: DATC081L; Co-req: DATC032*

DATC042 - Compositing and Rendering

2 units

The course will orient students on compositing techniques and efficient rendering applicable for 3D animation. *Pre-req: DATC032; Co-req: DATC041L*

DATC041L - Compositing and Rendering Lab

1 unit

The course establishes to students compositing techniques and efficient rendering methods using an appropriate 3D animation software suite. *Pre-req: DATC031L; Co-req: DATC042*

DATC052 - Modelling and Rigging

2 units

The course focuses on character development on different art concepts. Moreover, the students will be able to learn the theories of rigging. *Pre-req: EMCT012; Co-req: DATC051L*

DATC051L - Modelling and Rigging Lab

1 unit

The course emphasizes on character development in various gradients of details based on given art concepts. Students are able to learn the mechanics of rigging a model with skeleton and muscle structures as well as proper placement of critical structures based on required animation quality and timescale. *Pre-req: EMCT011L; Co-req: DATC052*

DATC062 - Advanced 3D Animation and Scripting

2 units

Students enrolled in this course learn how to write scripts to generate repeated animation effects and pre-determined movements. Basic structures in numerous scripting languages as used in 3D animation software tool shall be reviewed and learned in detail. *Pre-req: EMCT072; Co-req: DATC061L*

DATC061 - Advanced 3D Animation and Scripting Lab

1 unit

Students enrolled in this course learn how to create and incorporate scripts in 3D animation in order to generate repeated animation effects and pre-determined movements. *Pre-req: EMCT071L; Co-req: DATC062*

DATC072 - Advanced Sound Production

2 units

The course will introduce students on basic and advanced techniques in sound design and production. Students will be oriented on the popular software used to address technical sound production. *Pre-req: EMCT052; Co-req: DATC071L*

DATC071L - Advanced Sound Production Lab

1 unit

The course builds on the sound design and production aspect of digital animation. Advanced techniques in sound production are covered, including use of custom developed software. Out-of-the-box thinking among students will be highly encourages on students as they solve technical sound production problems beyond readily available solutions offered by popular software. *Pre-req: EMCT051L; Co-req: DATC072*

DATC082 - Texture and Mapping**2 units**

This course acquaints students on texture mapping, multi-texturing, light mapping, bump mapping, texture filtering, aliasing reduction techniques, clamping, and warping. *Pre-req: DATC052; Co-req: DATC081L*

DATC081L - Texture and Mapping Lab**1 unit**

Central idea in this course is the development of texture maps and application techniques in direct mapping, multi-texturing, light mapping, and bump mapping. Also covered are texture filtering, aliasing reduction techniques, clamping, and warping. *Pre-req: DATC051L; Co-req: DATC082*

DATC092 - Animation Design and Production**2 units**

The goal of this course is to develop student skills in designing and producing short animation that starts with storyboarding until the actual production. *Pre-req: DATC052, DATC082; Co-req: DATC091L*

DATC091L - Animation Design and Production Lab**1 unit**

Collaborative work is the main learning approach in this course to allow design and production of a short animation project given a complete storyboard to work on. *Pre-req: DATC081L, DATC051L; Co-req: DATC092*

F. GAME DEVELOPMENT PROFESSIONAL COURSES**GDVT012 - Game Programming I****2 units**

This course aims to teach students how to develop small game engine that includes 2D graphics, animation, and special effects through component-based approach. Discussions on managing input, audio, and collision detection will also be part of the course. *Pre-req: EMCT012; Co-req: GDVT011L*

GDVT011L - Game Programming I Lab**1 unit**

A small game engine will be developed by the students at the end of this course applying all the learned techniques on GDVT012 (Game Programming I). *Pre-req: EMCT011L; Co-req: GDVT012*

GDVT022 - Game Programming II**2 units**

This course will discuss the component-based theory for the development of basic 3D game engines that includes rendering, animation, and special effects. The course also tackles the basic capabilities of managing input, camera, audio, and collision. *Pre-req: GDVT012; Co-req: GDVT021L*

GDVT021L - Game Programming II Lab**1 unit**

This course will allow students to develop 3D game engines applying all the learned techniques on GDVT022 (Game Programming II). *Pre-req: GDVT011L; Co-req: GDVT022*

GDVT032 - Applied Mathematics for Games**2 units**

This course covers a range of mathematical concepts applied to games. Topics include vector algebra, matrices, analytic geometry, trigonometry, and probability theory and statistics as applied to modeling and simulation. *Pre-req: None; Co-req: GDVT031L*

GDVT031L - Applied Mathematics for Games Lab**1 unit**

At the end of the course, the students are able to develop a game using various mathematical equations and functions to represent behaviors. *Pre-req: None; Co-req: GDVT032*

GDVT042 - Applied Game Physics**2 units**

The course introduces the application of known laws of physics into a simulation system or 3D game engine. Topics included are simulation of Newtonian physics, collision detection and particle movements. *Pre-req: GDVT031L; Co-req: GDVT041L*

GDVT041L - Applied Game Physics Lab**1 unit**

At the end of the course, the students are able to develop a game using where physics principles are used to model interactions of various objects. *Pre-req: GDVT032; Co-req: GDVT042*

GDVT052 - Game Programming III**2 units**

This course discusses modern practices and advanced topic in game development. It covers 3D concepts and theories in computer games. Students are expected to be familiar with optimizing projects and adding high quality special effects. *Pre-req: GDVT022; Co-req: GDVT051L*

GDVT051L - Game Programming III Lab**1 unit**

At the end of the course, the students are able to use modern high-end graphics processors for game development. *Pre-req: GDVT021L; Co-req: GDVT052*

GDVT062 - Artificial Intelligence in Games**2 units**

The course puts focus on algorithms behind Artificial Intelligence in games and single-player games. Solutions for common algorithmic problems are discussed and analyzed. Covered as well in this course are topics on knowledge representation, search techniques, and machine learning techniques as applied in games. *Pre-req: COMP042; Co-req: GDVT061L*

GDVT061L - Artificial Intelligence in Games Lab**1 unit**

The course will let the students design and implement a simulation model for specific game scenarios. *Pre-req: COMP041L; Co-req: GDVT062*

GDVT072 - Advanced Game Design**2 units**

In this course, a student will learn the intricacies of certain aspects of design. These include, but are not limited to level design, balancing, economy, multiplayer, monetization based design and dynamic content creation. *Pre-req: EMCT012; Co-req: GDVT071L*

GDVT071L - Advanced Game Design Lab**1 unit**

The course will require the students to propose a complete game involving level design and varied game mechanics implementing a balance methodology and documented using GDD and TDD. *Pre-req: EMCT011L; Co-req: GDVT072*

GDVT082 - Game Networking**2 units**

This course will discuss how to create network capable games and the underlying aspects (game play, security, and communications) for building games that uses networking technology. *Pre-req: COMP042; Co-req: GDVT081L*

GDVT081L - Game Networking Lab**1 unit**

At the end of this course, the students are able to create a basic networked game. *Pre-req: COMP041L; Co-req: GDVT082*

GDVT092 - Game Production**2 units**

The course trains students on the intermediate and advanced methods of planning, coordinating, and implementing a project in game development. Core Skills such as communication, leadership, team building and conflict resolution are covered as well as budgeting and scheduling. *Pre-req: GDVT082; Co-req: GDVT091L*

GDVT091L - Game Production Lab**1 unit**

At the end of the course the students should be able to create a game production plan. *Pre-req: GDVT081L; Co-req: GDVT092*

VII. TOURISM AND HOSPITALITY MANAGEMENT PROGRAM**A. TOURISM AND HOSPITALITY CORE****TH003 - Macro Perspective of Tourism and Hospitality****3 units**

This course is designed to give a whole and clear overview of Tourism and Hospitality as an ecosystem and goes beyond the usual closed-concept of tourism. It introduces the concepts and terms that are common throughout the different sectors. It also intends to develop, update and maintain local knowledge as well as tourism industry knowledge. It shows the structures and scope of tourism as well as the impact of Tourism as an industry in relation to the world economy and society. It also illustrates the effect of the convergence of tourism with the other local industries and let the students appreciate its multiplier effect in various fronts. It discusses the major factors that influence the history and future of tourism in the world and in the Philippines. It also introduces the sustainable goals of tourism and discusses, among others, how to develop protective environments for children in tourism destinations; to observe and perform risk mitigation activities; etc. the students will also learn to appreciate the key global organizations and the roles they play in influencing and monitoring tourism trends. *Pre-req: None; Co-req: None*

TH013 - Micro Perspective of Tourism and Hospitality**3 units**

This course will cover the workings, operations and integrative activities of major stakeholders in the Tourism and Hospitality Industry. The student will also gain knowledge on managing and marketing a service-oriented business organization. Apart from the scope and structure of travel organizations, it provides an in-depth study of the nature and distinctive characteristics of each sector of the entire tourism industry, focusing on the management, organization and planning of specific business strategies for the various entities in the local setting. This will also involve the analysis of the possible impact of external factors and trends on the different on the different tourism industry sectors and specific types of businesses. It will also look into client profiling such as travels and influences as it relates to aligning strategic and tactical solutions to the business. The course also identifies the employment opportunities available in each sector and the corresponding qualifications for the jobs. *Pre-req: TH003; Co-req: None*

TH023 - Professional Development and Applied Ethics**3 units**

This course describe the skills, knowledge and performance outcomes required to develop the ability of students to become professionals in their field by understanding the ideas of improving one's personality and ways on how they are going to be valued in the business industry by means of presenting their ideas like company meetings, professional networking, interviews and through proposals of services considering the proper collaboration to their associates and portraying professional business ethics. It also

teaches writing skills and emphasize in verbal communication and preparation of plans that requires them to research career options and company potentiality and stability to develop a strong and effective career pathway. *Pre-req: PDH1013; Co-req: None*

TH033 - Risk Management as Applied to Safety, Security, and Sanitation

3 units

The student will develop knowledge, skills and values on the basic principle of personal hygiene, food safety and sanitation as applied in tourism and hospitality industry. Topics include the following: compliance with workplace hygiene procedures, Establishment and maintenance of a safe and secure workplace, implementation of occupational health and safety procedures and performing basic First Aid procedures. *Pre-req: None; Co-req: None*

TH053 – Quality Service Management in Tourism and Hospitality Industry

3 units

This course aims to enable the students to recognize and assess quality management processes in a hospitality and tourism related organization and to evaluate departmental processes. Topics include concepts and terminologies of TQM: definition, common element and terminology, vision and reality – bridging the gap; constructive and critical and personal reflection; proposed quality, self-assessment and peers assessment; seeking practical feedback for supervisors and continuing improvement, developing a personal management philosophy and personal development plan. *Pre-req: TH013; Co-req: None*

TH073 - Multicultural Diversity in Workplace in Workplace for the Tourism Professional

3 units

This course describes the skills, knowledge and performance outcomes required to manage multicultural diversity in workplace that covers organization's diversity policy, encouraging diversity within work teams and upholding the benefits of diverse workplace. It should also develop the ability to communicate with people from a range of social and cultural groups with respect and sensitivity, and to address cross – cultural misunderstanding if it arises. The end goal is for the student to be equipped with social awareness and diverse understanding when serving customers and working with colleagues. *Pre-req: TH093; Co-req: None*

TH083 - Philippine Culture and Tourism Geography

3 units

This course presents comprehensive coverage of the major tourist destinations in the Philippines. Major discussions will be on political structures and subdivisions, geographical characteristics, major attractions, gastronomy, culture and traditions of the various regions of the country leading to the realization of potentials of the Tourism Industry of the Philippines. Students will also have a comprehensive knowledge about the mechanism, logistics, operations and management of the tourism network system in the Philippines with its inherent physical and cultural resources as seen in the various provinces in the country. *Pre-req: TH013; Co-req: None*

TH093 - Legal Aspects in Tourism and Hospitality

3 units

The tourism and hospitality industry operates within a comprehensive and domestic, and international, legal and regulatory framework. This course examines this framework and covers the key principles of law applicable to hospitality, tourism and related industries. Various legislation on business organization and several international law issues such as consumer protection, product and service liability, employment and law access to the natural environment will be covered.

Topics include: national and international regulation of travel and hospitality industry; consumer contracts law; the law of carriers and inns; the duties of travel operators and agents; travel insurance law; the law of bailment; the responsibilities of travel agents and tour operators; hotel management law; liquor licensing law; catering law; gaming law; marketing law; consumer rights and complaints; the law regulating payment (including credit card payments); the finance of carriers and inns; criminal and civil liability of people working in the travel and tourism industry.

This course also examines the law regulating the issuance of visa and travel documentation, and consider the liability of the operators, agents, carriers and government instrumentalities in relation to health and safety issues (including acts of terrorism). *Pre-req: TH103; Co-req: None*

TH103 - Entrepreneurship in Tourism and Hospitality

3 units

This course describes the skills, knowledge and performance outcomes required to plan and develop feasible Business Plan by understanding the nature and scope of entrepreneurship, scanning the market of potential entrepreneurial potential venture opportunities, and identifying and evaluating the methods of venturing into business including but not limited to starting one's own business, buying existing businesses and the process of franchising. It also emphasizes on assessing the possible characteristics and mindset of entrepreneurs, analyzing typical entrepreneurial venture challenges, errors and rewards, identifying effective strategic management, developing product and service innovations and introducing the concepts of environmentally sustainable practices, social entrepreneurship and intellectual property management. *Pre-req: TH143; Co-req: None*

TH143 - Tourism and Hospitality Marketing

3 units

This course will equipped students with the necessary skills to develop actual marketing campaigns for a business within the tourism and hospitality industry. Emphasis is on the analysis of the market, its competition and its product; preparation of financial budget and the development of a short-term and long-range strategies to achieve desired profit through effective advertising, sales and an effective public relations plan. *Pre-req: TH003; Co-req: None*

BMC143 - Operations Management in Tourism and Hospitality Industry**3 units**

This course tackles the nature, scope, functions and importance of production and operations management in tourism and hospitality business. It includes discussions on productivity, competitiveness and strategy, forecasting, production system design, process selection and capacity planning, facilities layout, design of work systems, quality, scheduling and just-in-time manufacturing systems. Cases will also be used to illustrate and apply the basic production and operations concepts and tools commonly used in the tourism and hospitality business firms. *Pre-req: TH053; Co-req: None*

BMC253 - Strategic Management and TQM in Tourism and Hospitality Industry**3 units**

This course aims to acquaint students with the ongoing process of developing and positioning a tourism and hospitality establishment for competitive advantage and its changing business environment. It focuses on the strategy and formulation and strategic planning using an integrative approach which covers the major functional areas of management in consideration with continual improvement. *Pre-req: BMC143; Co-req: None*

B. HOSPITALITY MANAGEMENT PROFESSIONAL COURSES**FL063A – Japanese Language 1****3 units**

This course aims to train students to develop basic conversational skills using Japanese language. *Pre-req: None; Co-req: None*

FL063B - Japanese Language 2**3 units**

This course aims to train students to develop intermediate conversational skills using Japanese language. Student should be able to understand technical jargon used in the hospitality industry. *Pre-req: FL063A; Co-req: None*

HM061 - Kitchen Essential and Basic Food Preparation**1 unit**

The student will learn theoretical knowledge and demonstrate practical skills in basic culinary tasks, basic food preparation and food presentation in a commercial establishment. Topic will include the following: Application of basic techniques of commercial cookery; Application of safety standard procedures for handling foodstuffs; Clean and maintain kitchen equipment and utensils; Organize and prepare food products and meals; Prepare and store food in a safe and hygienic manner; Receive and securely store in-coming goods; Establish and maintain quality control in food production; Identify, prepare and portion various meats; Prepare appetizers and salads; Prepare soups, stock and sauces; Prepare vegetables, eggs and farinaceous dishes; Present and display food products. *Pre-req: TH033; Co-req: HM062L*

HM062L - Kitchen Essential and Basic Food Preparation Lab**2 units**

This course provides the opportunity to apply the theoretical knowledge into practices commonly found in an operational environment. This is the practical application of knowledge learned about basic techniques of commercial cookery, basic food preparations and food presentation. *Pre-req: TH033; Co-req: HM061*

HM072 - Fundamentals in Food Service Operation**2 units**

The student will learn the necessary knowledge, develop the various skills and cultivate the proper attitudes needed for the delivery of quality service of food and beverage operations in hotel and restaurants. Topics include the following; Clean and tidy bar and food service areas; Develop and maintain food and beverage product knowledge; Manage the responsible service of alcohol; Prepare and serve cocktails; Prepare and serve non-alcoholic beverages; Provide a link between kitchen and service area; Provide advice to patrons on food and beverage services; Provide food and beverage services; Provide room service; Provide silver service; Take food orders and provide courteous table service; Manage intoxicated person. *Pre-req: TH033; Co-req: HM071L, HM132*

HM071L - Fundamentals in Food Service Operation Lab**1 unit**

This course is the laboratory component of HM072 (Fundamentals in Food Service Operation). It provides opportunity to learn the skills that is needed in the food service operation while developing the required attitude for such skill. Laboratory work will include preparation of alcoholic and non-alcoholic drinks and demonstration of different food and beverage services, including proper guest relation. *Pre-req: TH033; Co-req: HM072, HM131L*

HM102 - Fundamentals in Lodging Operations**2 units**

This course describes the skills, knowledge and performance outcomes required to explore and analyze the management and practices of lodging operations and related sales activities in the major and support departments. It will also expose the students on the unique aspect of managing a service-based lodging establishment delivered by diverse employees and understanding of the business and financial operations of the lodging firm. The course introduces the housekeeping department of a hotel and lodging organization: its organizational structures; roles and responsibilities; function of the department; equipment and tools for housekeeping operations including linen, uniform and laundry service; general maintenance and decoration of the hotel; safety and sanitation in housekeeping operations; management of operations and record-keeping; precautionary procedures; guest safety and hotel assets. *Pre-req: TH003; Co-req: HM101L*

HM101L - Fundamentals in Lodging Operations La**1 unit**

This course is the laboratory component of HM102 (Fundamentals in Lodging Operations). Focus is given on skills required for housekeeping operations. *Pre-req: TH003; Co-req: HM102*

HM113 - Supply Chain Management in Hospitality Industry**3 units**

This course describes the skills, knowledge and performance outcomes required to understanding the basic concepts on managing the complete movement of products or services in a supply chain from the suppliers to the customers. It also emphasizes on identifying the effects of current and future trends in supply chain management, and on assessing the processes and performances in a supply chain to optimize processes into a seamless, innovative and most cost-effective way to help companies build a competitive edge. *Pre-req: TH103; Co-req: None*

HM132 - Applied Business Tools and Technologies**2 units**

This course describes the skills, knowledge and performance outcomes required to understand and operate relevant IT systems that are used in the Hotel and Restaurant Industry. Topics covered include folio systems for the front office; POS system for F&B operations as well as other computer and online systems for various departments such as reservations, finance, housekeeping, marketing, and the public relations unit. *Pre-req: None; Co-req: HM072, HM131L*

HM131L - Applied Business Tools and Technologies Lab**1 unit**

This course is the laboratory component of HM132 (Applied Business Tools and Technologies). Emphasis is given in the use of PMS (Property Management System). *Pre-req: None; Co-req: HM071L, HM132*

HM152 - Ergonomics and Facilities Planning for the Hospitality Industry**2 units**

This course will develop knowledge, skills and attitudes in ensuring the work environment of the organization fits the industry professional. Topics include:

- Planning and designing workstations to create efficient and effective workplaces.
- Selecting workstation furnishings to provide flexibility and adaptability for workers.
- Designing lighting for proper illumination on work areas.
- Creating work areas where noise is controlled for normal operation to be done in the work station.

Pre-req: HM072, HM102, HMElec-3, TH103; Co-req: HM151L

HM151L - Ergonomics and Facilities Planning for the Hospitality Industry Lab**1 unit**

This course is the laboratory component of HM152 (Ergonomics and Facilities Planning for the Hospitality Industry). The terminal course requirement shall be a Floor Plan and Miniature Model of a food production or food and beverage service area of a restaurant/hotel/resort. *Pre-req: HM071L, HM101L, HMElec-3L, TH103; Co-req: HM152*

HM172 - Introduction to Meeting Incentives, Conferences and Events Management (MICE) as Applied to Hospitality**2 units**

This course examines the principles of conceptualizing, planning, managing and evaluating meetings, and events and festivals management. Topics include the significance of conventions and events in tourism, event design, project management, methods and evaluation, physical requirements, organizing promotion and sponsorship. This is an integration course that applies all the principles of conceptualization or management and foundation tourism and hospitality courses. *Pre-req: BMC143, TH093; Co-req: HM171L*

HM171L - Introduction to Meeting Incentives, Conferences and Events Management (MICE) as Applied to Hospitality Lab**1 unit**

This course is the laboratory component of HM172 (Introduction to Meeting Incentives, Conferences and Events Management (MICE) as Applied to Hospitality). The terminal course requirement shall be an actual event execution related to tourism and hospitality industry. *Pre-req: BMC142, TH093; Co-req: HM172*

HM183 - Tourism Research, Methods, and Techniques**3 units**

This course describes the skills, knowledge and performance outcomes required to develop a research orientation among students and to acquaint them with fundamentals of research methods like quantitative, qualitative or mixed methods research approaches that will lead in the production of a good, timely and relevant research study. It also encompasses the critical understanding on identifying and assessing ethical issued related to research, the awareness and benefits of research in the field of interest and its help in their future career, in the society or community, and in the local and global environment. *Pre-req: TH083; Co-req: None*

HM-RESA - Research in Hospitality I**3 units**

This course is designed to provide students with the principles and techniques of writing a research project. The end result shall be a research proposal on food service facilities design and layout or a feasibility study on a business venture in hospitality industry. *Pre-req: HM183; Co-req: None*

HM-RESB - Research in Hospitality II**3 units**

This course pertains to the preparation and presentation of the terminal paper as proposed in HM-RESA (Research in Hospitality I). *Pre-req: HM-RESA; Co-req: None*

HM-PRC6-A - Practicum I (600 hrs)**6 units**

Practicum provides opportunities to apply classroom learning to actual work. In this respect, the student shall undergo job exposure in the areas of housekeeping and food and beverage operations. The student will be evaluated by the supervisor/manager he/she is directly responsible. At the end of the course, he/she should submit a training report, with an emphasis on problem-solving and recommendations for improvement of the company he/she has worked with. *Pre-req: HM132, HM131L, HMElec-5, HMElec-5L, TH023, TH073; Co-req: None*

HM-PRC6-B - Practicum II (600 hrs)**6 units**

Practicum provides opportunities to apply classroom learning to actual work. In this respect, the student shall undergo job exposure in all areas of the hospitality operations. The student will be evaluated by the supervisor/manager he/she is directly responsible. At the end of the course, he/she should submit a training report, with an emphasis on problem-solving and recommendations for improvement of the company he/she has worked with. *Pre-req: HM-PRC6-A; Co-req: None*

HMElec-1 - Front Office Operation**3 units**

This course is designed to provide students with the knowledge, skills and attitudes to perform front office and reception duties and be qualified as a Front Office Attendant in any lodging establishment. Furthermore, it is a detailed study of the general management and standard operating procedure of a hotel's/resort's front office with special focus on accommodation establishments of international standards. The course includes bell service, reception/information, reservation, cashiering, handling of telephone exchanges and business centers. *Pre-req: HM132, HM131L; Co-req: None*

HMElec-2 - Quick Food Service Operation**3 units**

This course provides student with the necessary knowledge in quick service operation. Topic includes operational, financial, and people management with emphasis on the specific functions such as: organization of stock and equipment, ordering of supplies, building maintenance, cleanliness and security of premises, budget planning, inventory, and sales projection. *Pre-req: TH053; Co-req: None*

HMElec-3 - Catering Management**1 unit**

This course involves the planning and organization of food and beverage services for various types of events. The course will also provide students with the skills and knowledge required to analyze, interpret and manage operations in a catering business, taking into consideration food and beverage control system. *Pre-req: HM072, TH103; Co-req: HMElec-3L, HMElec-5*

HMElec-3L - Catering Management Lab**2 units**

This course is the laboratory component of HMElec-3 (Catering Management). The student will have an opportunity to practice the skills learned in food and beverage preparation, production, and service based on the highest quality of standard. *Pre-req: HM071L; Co-req: HMElec-3, HMElec-5L*

HMElec-4 - Revenue Management**3 units**

This course will equipped students with the necessary knowledge on the fundamental principles and concepts of revenue management. Topics in this course include: capacity management, duration control, demand and revenue forecasting, discounting, overbooking practices, displacement analysis, channel management, and pricing execution. *Pre-req: HMElec-1; Co-req: None*

HMElec-5 - Gastronomy (Food and Culture)**1 unit**

This course provides theoretical and applied knowledge on the general perspective of common processes from human forms of food substance, food production, the creation of culinary techniques, beverage production, the use and making of tools, and the most prominent historical development in traditional gastronomy. Additionally, a comparative analysis between gastronomic cultures is proposed, highlighting the contributions and uniqueness of the cuisine according to their regions. The course sets a benchmark in the world of gastronomy as an integral part of culture in a given human social structure and social-historical approach. *Pre-req: HM061; Co-req: HMElec-5L, HMElec-3*

HMElec-5L - Gastronomy (Food and Culture) Lab**2 units**

This course is the laboratory component of HMElec-5 (Gastronomy-Food and Culture). This course also provides students the opportunity to prepare traditional regional Cuisine both in Asia and Western world, with emphasis to their techniques, ingredients, spices and influences. Timing and organizational skills are emphasized. *Pre-req: HM062L; Co-req: HMElec-5, HMElec-3L*

C. TOURISM MANAGEMENT PROFESSIONAL COURSES**FL073 - Foreign Language I****3 units**

This course aims to train students to develop basic conversational skills using foreign language. *Pre-req: None; Co-req: None*

FL083 – Foreign Language II**3 units**

This course aims to train students to develop intermediate conversational skills using a foreign language. Student should be able to understand technical jargon used in the tourism industry. Likewise, this is also designed to develop listening, reading, and writing skills in foreign language. *Pre-req: FL073; Co-req: None*

FL093 - Foreign Language III**3 units**

This course aims to train students to develop advance conversational skills using a foreign language. Likewise, it is an intensive course designed to enhance listening, reading, and writing skills in foreign language at the advanced level. *Pre-req: FL083; Co-req: None*

TM083F - Global Culture and Tourism Geography**3 units**

This course shall have a student's analyze and familiarize themselves with specific word travel destinations, with emphasis on the exploration of geographic features, customs and traditions, population centers, visitor attractions, political, religious, language and other cultural differences as these relate to the hospitality and travel industry. Students will develop understanding as well sense of responsiveness for cultural values and traditions that exist beyond their own culture. Students will be able to identify international travel patterns by locating various major cities, natural wonders, historic sites, and other tourism attractions, both man-made and natural focusing as well with the major travel-generating and travel-receiving areas. *Pre-req: TH083; Co-req: None*

TM123 - Tour and Travel Management**3 units**

The course studies the role of the Travel Agency and Tour Operator in the Tourism Industry, leading to a better understanding of the trade and its internal workings, the role of each component in offering cost effective and good "value for money" products for its clients. It also includes topics such as tour products and its efficient development and marketing as well as a travel agency and tour operator organization and functions. In addition to lecture classes, the students are exposed to the skill required in the travel trade, such as interpersonal and communication skills, terminologies, documentation, procedures and systems used. *Pre-req: TH083, TH143; Co-req: TM132, TM131L*

TM132 - Applied Business Tools and Technologies for Tourism**2 units**

This course identifies common tools, technology and techniques used in the Tourism and Hospitality industry. It includes an overview of the applications or systems composed of technical processes, methods, software and hardware that have evolved and streamlined certain functions in the workplace. These applications and systems include those used in (1) an organization's internal functions, (2) business-to-business operations (including operations with suppliers) and (3) business-to consumer transactions. The goal is to expose students to different applications so he/she can identify, learn, analyze and understand available devices solutions, from which they can select the one/s that is most appropriate for the business function, Topics covered: how to utilize information technology application; how to use various communication channels in dealing with guests and colleagues; how to access and retrieve electronic-based data; how to perform administrative and clerical procedures; how to receive and process reservations; how to source and provides destinations information and advice; how to produce applicable travel documentation, etc. The student will also learn to appreciate the impact of technological innovations to the economy, the industry, the organization's business model and to specific functions/operations of the organization. This will also ensure that the students will also know the value of including tools and technology in its business strategy. *Pre-req: None; Co req: TM123, TM131L*

TM131L - Applied Business Tools and Technologies for Tourism Lab**1 unit**

This course is the laboratory component of TM132 (Applied Business Tools and Technologies for Tourism). *Pre-req: None; Co req: TM123, TM132*

TM163B - Transportation Management**3 units**

This course discusses the general knowledge of the transportation, its role to the tourism, planning and policies. The content includes transportation systems, various aspects of tourism-related forms of transportation, modes of transportation, transportation operation including concepts and methods analysis, infrastructure, and geographical and legal factors relating to local and international transportation. Topics include discussions of surface, air, and water transportation; organization, operations, and regulatory and marketing aspects; examination of the inter-model concept; and the social, economic and political factors that have influenced government transportation priorities. *Pre-req: BMC143, TM083F; Co-req: None*

TM172 - Introduction to Meetings Incentives, Conferences and Events Management (MICE) as Applied to Tourism**2 units**

This course examines the principles of conceptualizing, planning, managing and evaluating events, conferences, meetings, festivals, and other such special activities. Topics include the significance of conventions and events in tourism. Lessons include discussions on event conceptualization, event design, project/event management, methods of monitoring and evaluation, physical requirements, organizing promotions and sponsorships and handling the financial aspects of such tasks. The course will give the students the skills and knowledge to develop business strategies to get MICE business and retain the clients, as well as to identify, understand and overcome the intricate challenges of collective supplier management and engagement. This is an integration course that applies all the principles of management and foundation in tourism courses. *Pre-req: TM083F, TM163B, TMElec-5; Co req: TM171L, TM263*

TM171L - Introduction to Meetings Incentives, Conferences and Events Management (MICE) as Applied to Tourism Lab**1 unit**

This course is the laboratory component of TM172 (Introduction to Meetings Incentives, Conferences and Events Management (MICE) as applied to Tourism). It includes actual event execution as part of terminal course requirement. *Pre-req: None; Co-req: TM172, TM263*

TM183B -Tourism Research, Methods, and Techniques**3 units**

The course aims to educate the student in the essential research tools and skills that will be needed as to perform as managers in the tourism and hospitality industry. This course will introduce the research process: from design, data collection, hypothesis testing, to reporting; featuring econometrics and other quantitative applications in business research; and research on a topic related to the tourism and/or hospitality industry. The student shall undertake a study on a topic of his/her own choice through which he/she can develop the necessary skills of planning, researching, reporting as well as the ability for writing a thesis. After successful completion of this course, the students will be able to:

- Develop an understanding and appreciation of research and the need for research, not only in tourism and hospitality, but also applicable to numerous other fields.
- Develop knowledge and skills in designing and carrying out research projects.
- Experience valuable “real-life” lessons.

Pre-req: TH083; Co-req: None

TM203 - Sustainable Tourism**3 units**

Students will have a broad understanding of environmental issue and their impact upon the tourism industry, therefore subject area such as pollution, waste management and biodiversity will be a primary focus. Awareness and the understanding of the implications of tourism impacts, especially on socio-cultural and environmental aspects, are critical to properly guided sustainable tourism planning and development. The natural and cultural environments of communities and global destinations will be explored to enable students to critically interpret tourism interdependency, and the changes and development of domestic and international tourism policy. The course critically examines tourism planning as a process and as a set of techniques of sustainable tourism development. It focuses on the physical environment of tourism planning, and the social, cultural and political realities of planning and policy making. *Pre-req: TH083; Co-req: None*

TM263 - Tourism Policy Planning and Development**3 units**

Students will be able to understand tourism planning as a process and as a set of techniques for sustainable tourism development giving importance on the physical environment and the social, cultural and political realities of planning and policy making. Students will engage with practical planning tools and strategies, industry, government, field work, and individual and group projects to develop and understanding of tourism policy-making processes, and to gain skills in both evaluation and development of tourism plans and policies. Students will discover tourism as a strategy for urban revitalization, conservation, agriculture, and historic preservation while promoting the value of tourism in enhancing community character, culture, quality of life and sense of place. Case studies in Philippine-setting are emphasized. Discussions will also be made on the Philippine Tourism Master Plan to allow the students an overview of what real plans are like and experience evaluation by measuring the actual achievements of the government against their plans. The course may include a field trip component. *Pre-req: None; Co-req: TM172, TM171L*

TM-RP1 - Research Project I**3 units**

This course is designed to provide students with the principles and techniques of writing a research project geared towards tourism and hospitality industry. Project may be in collaboration with Hospitality Management. The end result shall be a research proposal on a business venture in tourism industry or any research that will contribute to the development of the tourism industry. *Pre-req: TM183B; Co-req: None*

TM-RP2 - Research Project II**3 units**

This course pertains to the preparation and presentation of the terminal paper as proposed in TM-RP1 (Research Project I). *Pre-req: TM-RP1; Co-req: None*

TM-PRC7 - Practicum (700 hrs)**7 units**

Practicum provides opportunities to apply classroom learning to actual work. In this respect, the student shall undergo job exposure in all areas of the tourism operations to include: Tour Operations, Government agencies in Tourism and Hospitality, MICE, and other relevant of exposure based on specialization/training received in school. *Pre-req: TH073, TM172, TM171L, TM263; Co-req: None*

TMElec-1 - Philippine Gastronomical Tourism**1 unit**

This course provide students an opportunity to explore the concept of gastronomical tourism between regions and its economic impact on the Philippine tourism industry. Topic includes: impact of food and culture in the tourism marketplace, assessment of regional foods, and food-related events that have an impact on tourism. *Pre-req: TH003; Co-req: TMElec-1L*

TMElec-1L - Philippine Gastronomical Tourism Lab**2 units**

This is the laboratory component of TMElec-1 (Philippine Gastronomical Tourism). This course aims to provide students, thru demonstrations, the principles of preparing authentic Filipino cuisine associated to each regions in the Philippines with emphasis on the techniques, ingredients, spices and influences. *Pre-req: TH003; Co req: TMElec-1*

TMElec-2 - Agri-Tourism**3 units**

The course provides an overview of the rapidly growing international fields of agri-tourism and food tourism from interdisciplinary academic approaches. The course also provide students an opportunity to study the issues associated with ecological and cultural

sustainability and how it can be managed in the context of a sensitive, relatively poor and declining countryside. Topic includes: global scope and local potential of agri-tourism, trends, media influences, markets and marketing, logistics and regulations, value added product development, stakeholders, innovative partnerships, employment opportunities, and other benefits for the local population. *Pre-req: TH003; Co-req: None*

TMElec-3 - Cruise Tourism

3 units

This course will equip the students with a comprehensive knowledge and concepts of cruise tourism, how it is sold to the end user. Topic includes overview of the cruise industry and its history, demand and supply dynamics, economic, social, legal and environmental contexts, security and risk assessment of cruise ship, cruise itineraries, ports of call, and cruise packages. *Pre-req: TH003; Co-req: None*

TMElec-4 - Tour Guiding

3 units

This course provide students with comprehensive knowledge on techniques and best practices in guiding travelers in their travels locally and abroad. Particular emphasis will be given to planning, coordinating, and handling tour activities in consideration with risk assessment, safety and security. *Pre-req: TH083; Co-req: None*

TMElec-5 - Heritage Tourism

3 units

This course is designed to provide an understanding of the concepts of cultural heritage tourism. Theory, practice, history, terminology and current issues of cultural heritage and tourism planning and management will be examined. Additionally, basic survey of cultural and heritage components, motives and behaviors of heritage tourists attraction (museums, arts, festivals/events, urban/rural areas and landscapes), interpretation economics and policies will be discussed. *Pre-req: TH083; Co-req: None*

TMElec-6 - Accommodation Operations and Management

3 units

In this course, students examine the responsibilities of front office staff in the hotel/tourism industries. Specific topics include public relations, sales promotions, reservation, cashiering, night audit and accounting techniques, checking guests in and out, handling mail and other guest information, and emergency procedures. *Pre-req: BMC143, TM132, TM131L; Co-req: None*

TMElec-7 - Recreational and Leisure Management

3 units

This course provides students an appreciation of the other components of hospitality and tourism management as travel trends, developments and operators of resorts, hotels, golf courses and country club facilities for recreation and leisure. *Pre-req: BMC143, TMElec-6; Co-req: None*

VIII. LETRAN QUALITY ENRICHMENT COURSE

The objectives of Letran Quality Enrichment Courses (LQECs) are the following:

- To ensure that the optimum communication abilities (thinking, speaking, and writing in the English language) of the students are realized;
- To ensure that the holistic socio-cultural and psychological maturity of the learner is achieved; and
- To ensure that the knowledge, skills, and aptitude as accounted in the learning outcome/s and the objectives of the major course/s recently taken are fully absorbed.

PROGRAM MAP

College of San Juan de Letran Calamba
Academics Division
CURRICULUM MAP

BACHELOR OF ARTS IN COMMUNICATION
Curriculum Year: 2018-2019

Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8

General Courses
Core Courses

Semester 1
GEC001
GEC002
GEC003
GEC004
RELE001

Letran Track

RELE003

Elective Course

GEC003
FA113
PE442-1B
RELE003

Physical Education Courses
Sports Instruction, Theory, Practice
SHED Maintenance Courses

FL001
PE322-1B
MS172-1B

Major/Professional Courses

ABCOM001
ABCOM002
ABCOM003
ABCOM004
ABCOM005
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Presented by
Dr. Mary Magdalena V. Ocenar
Program Co-Chair
Date: April 1, 2018
Reference: AR-00-00-01-17

Noted by
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Date: 4-24-18

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Vice-Chancellor for Academic Services
Date: 4-18-18

Approved by
Dr. Mary Magdalena V. Ocenar
Vice-Chancellor for Academic Services
Date: 4-18-18



BACHELOR OF SCIENCE IN PSYCHOLOGY
Curriculum Year 2018-2019

CURRICULUM MAP

- Semester 1: GEC001 GEC013 GEC020 GEC033
- Semester 2: GEC003 GEC043
- Semester 3: GEC093
- Semester 4: GEC093
- Semester 5: GEC093
- Semester 6: GEC093
- Semester 7: GEC093
- Semester 8: GEC093

General Courses
Core Courses

Human Thought

Physical Science

Physical Education Courses

Regional Service Training Program

CHED Mandated Courses

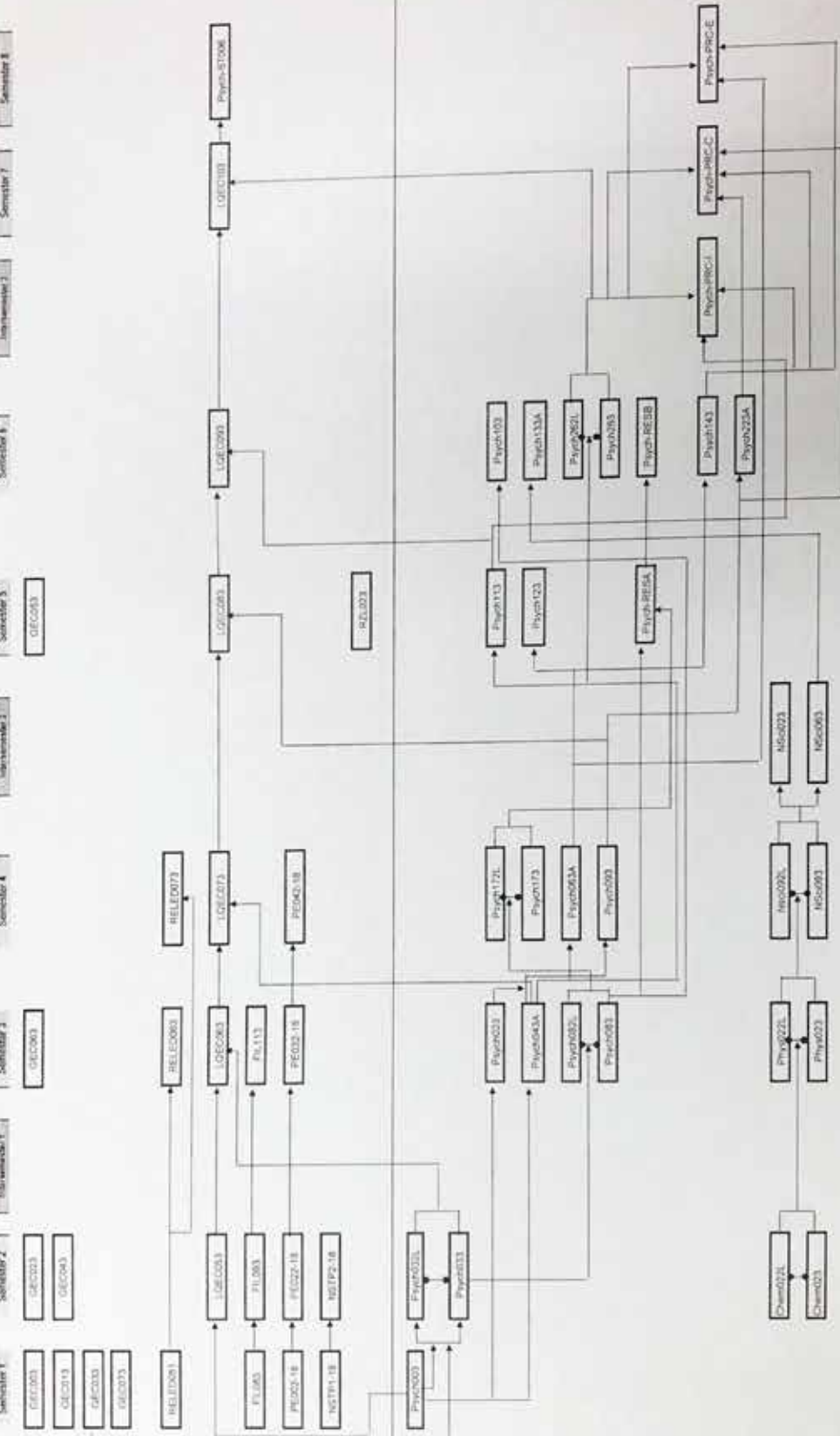
Major / Professional Courses

Basic Courses

Professional Courses

Electives

Additional Courses
Natural Science Electives



Prepared by: *[Signature]*
 MS. ANNE B. WALCOES, RPsy, 09th
 Program Chair
 Date: April 5, 2018
 Reference: AR 00-00-QH-17

Noted by: *[Signature]*
 DR. MARIA MILAGROS M. OCEJENA
 Dean
 Date: April 5, 2018

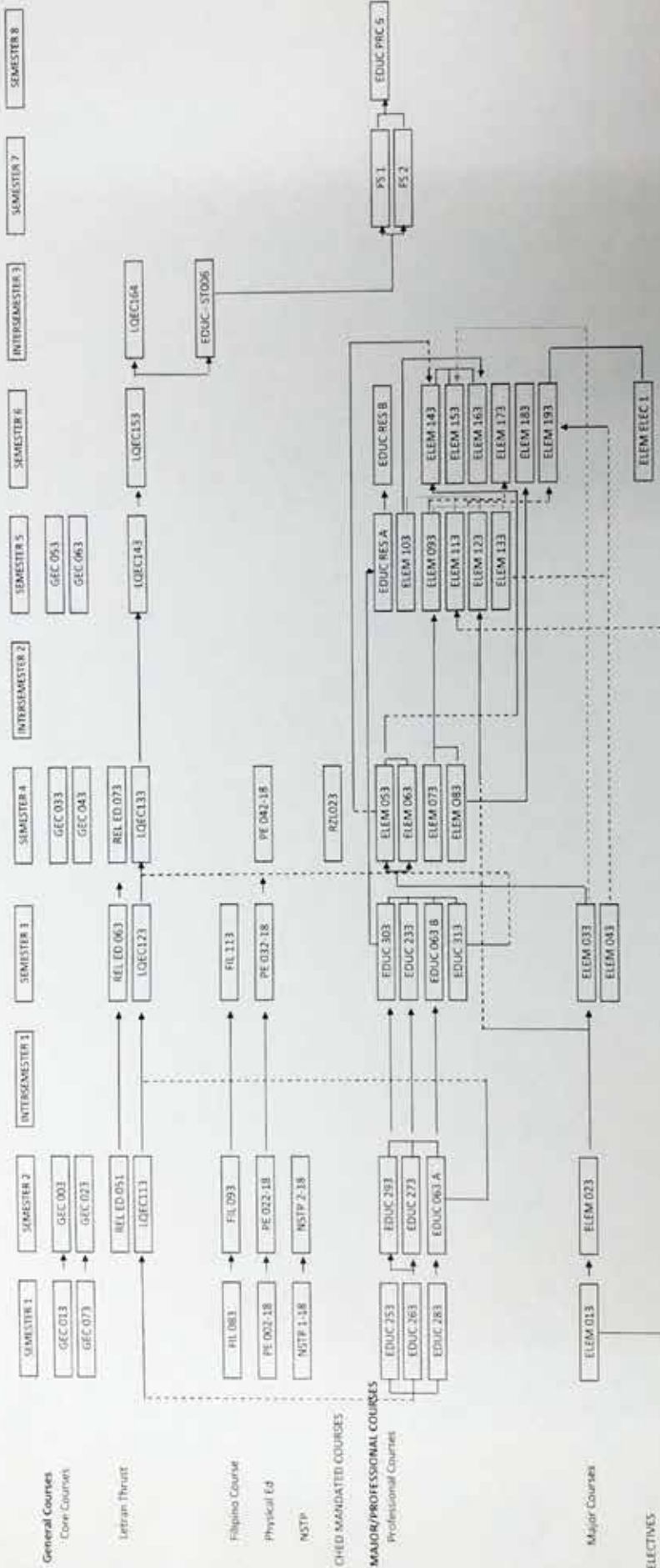
Reviewed by: *[Signature]*
 MS. ELORSA A. GENOTA
 Registrar
 Date: April 24, 18

Approved by: *[Signature]*
 DR. MARICELA N. MARRANGAS
 Vice President for Academics
 Date: April 11, 18

COLEGIO DE SAN JUAN DE LETRAN CALAMBA
ACADEMICS DIVISION
CURRICULUM MAP



BACHELOR OF ELEMENTARY EDUCATION
Curriculum Year: 2018-2019



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Reference: AB-00-00-QP-17

BACHELOR OF SCIENCE IN ACCOUNTANCY
Curriculum Year 2018-2019

Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8

General Courses
Core Courses



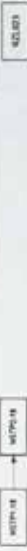
Filipino Courses



Physical Education Courses



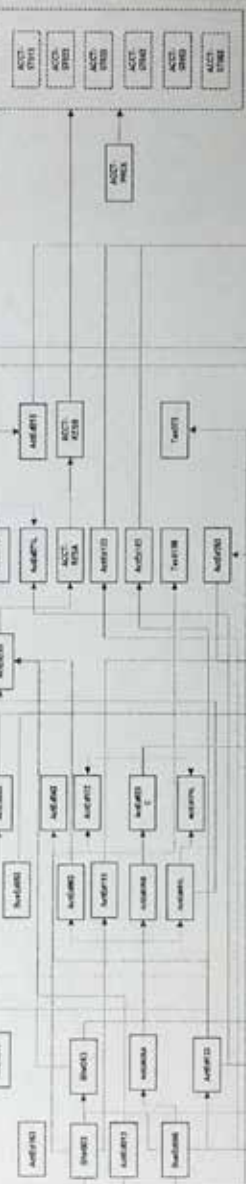
CHED Mandated Courses



Professional Courses
Common Business Management Courses



Core Accounting Education Courses



Cognate Major/Professional Courses



Lettera Thesis



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DR. MARICEL C. CAYANO
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Program Chair/Co-Chair
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Vice President for Academics
Date 5/16/18

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION MAJOR IN MARKETING MANAGEMENT
Curriculum Year 2019-2020

Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8 | Semester 9 | Semester 10 | Semester 11 | Semester 12

General Courses
Core Courses



Liberal Studies



Physical Science



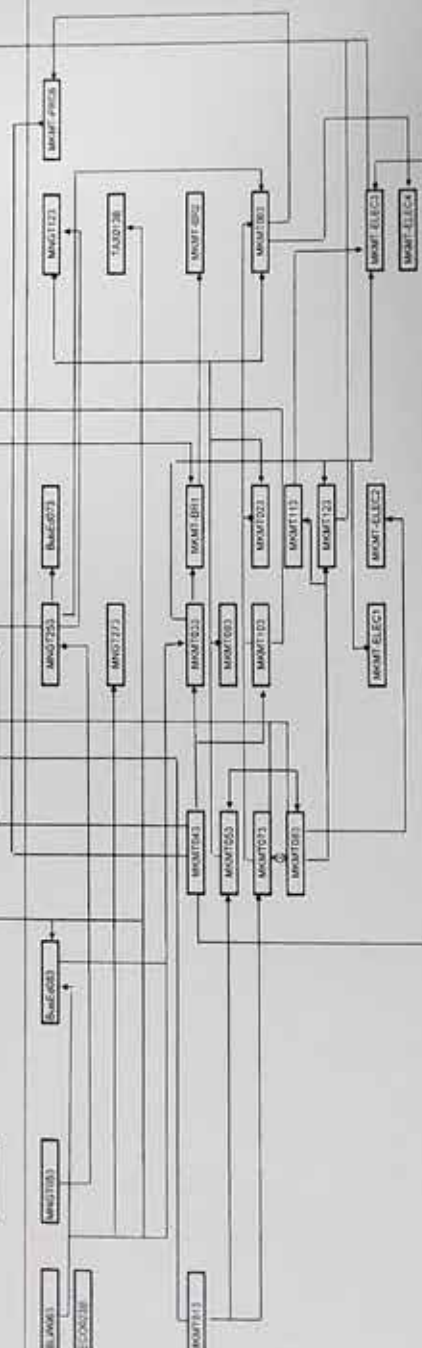
Physical Education Courses



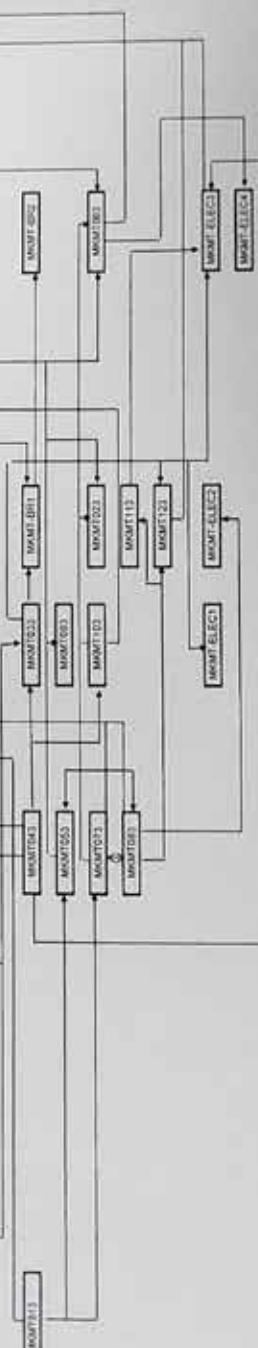
CHED Mandated Courses



Major / Professional Courses
Common Courses



Professional Courses



Electives

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Signature over Printed Name
Registrar

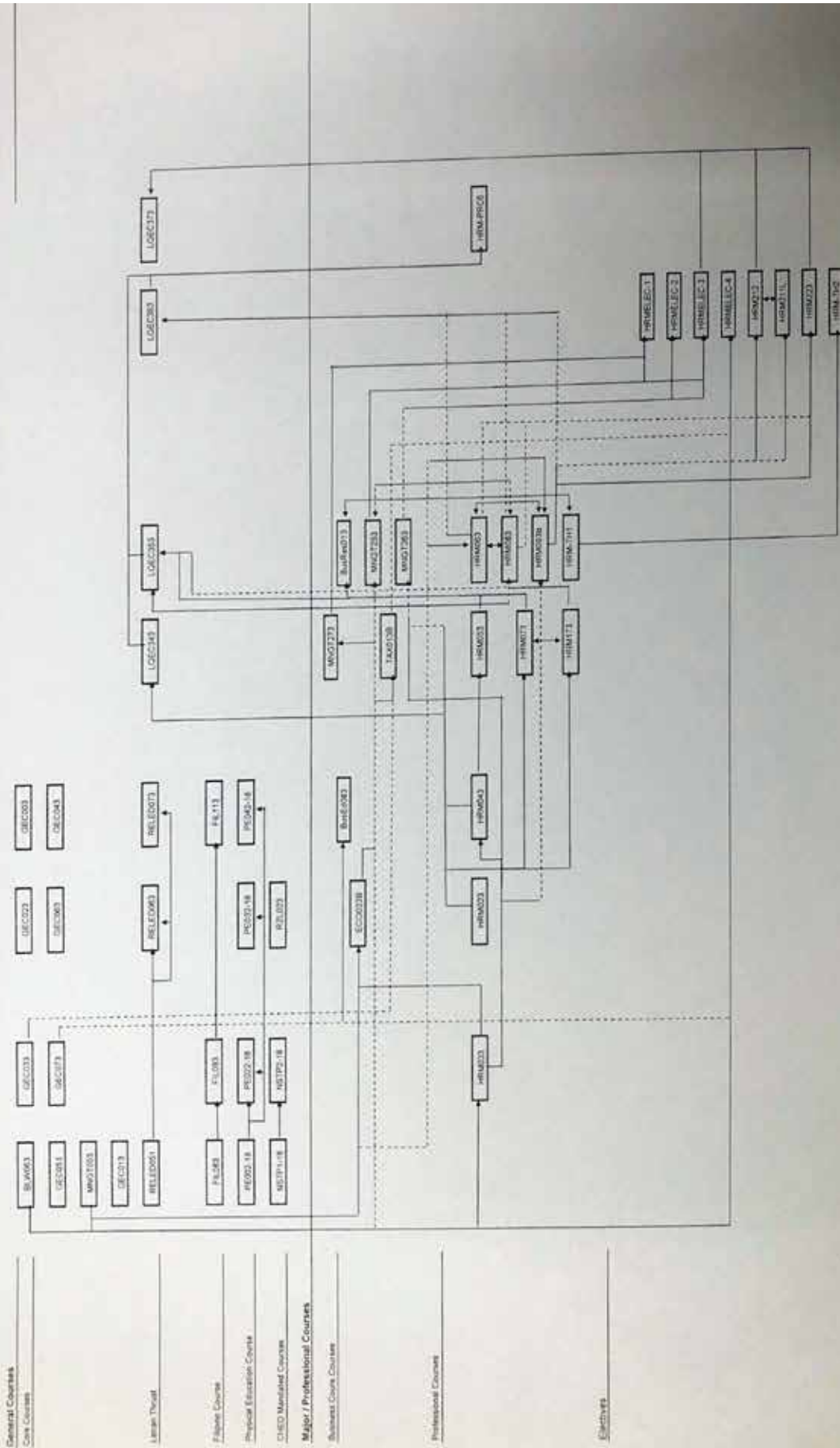
Approved by: DR. JAYMARA M. BARRON
Signature over Printed Name
Vice President for Academics



College for Business Administration
 Academic Division
 CURRICULUM MAP

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION MAJOR IN HUMAN RESOURCE MANAGEMENT
 Curriculum Year: 2019-2021

Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8



General Courses
 Core Courses

Language

Physical Science

Physical Education/Co-ops

CHED Mandated Courses

Major / Professional Courses

Business Core Courses

Professional Courses

Electives

Reviewed by:
 DR. MARIA CRISTINA C. CATIMO, CPA
 Signature over Printed Name
 Program Chair/Co-Chair
 Date: _____

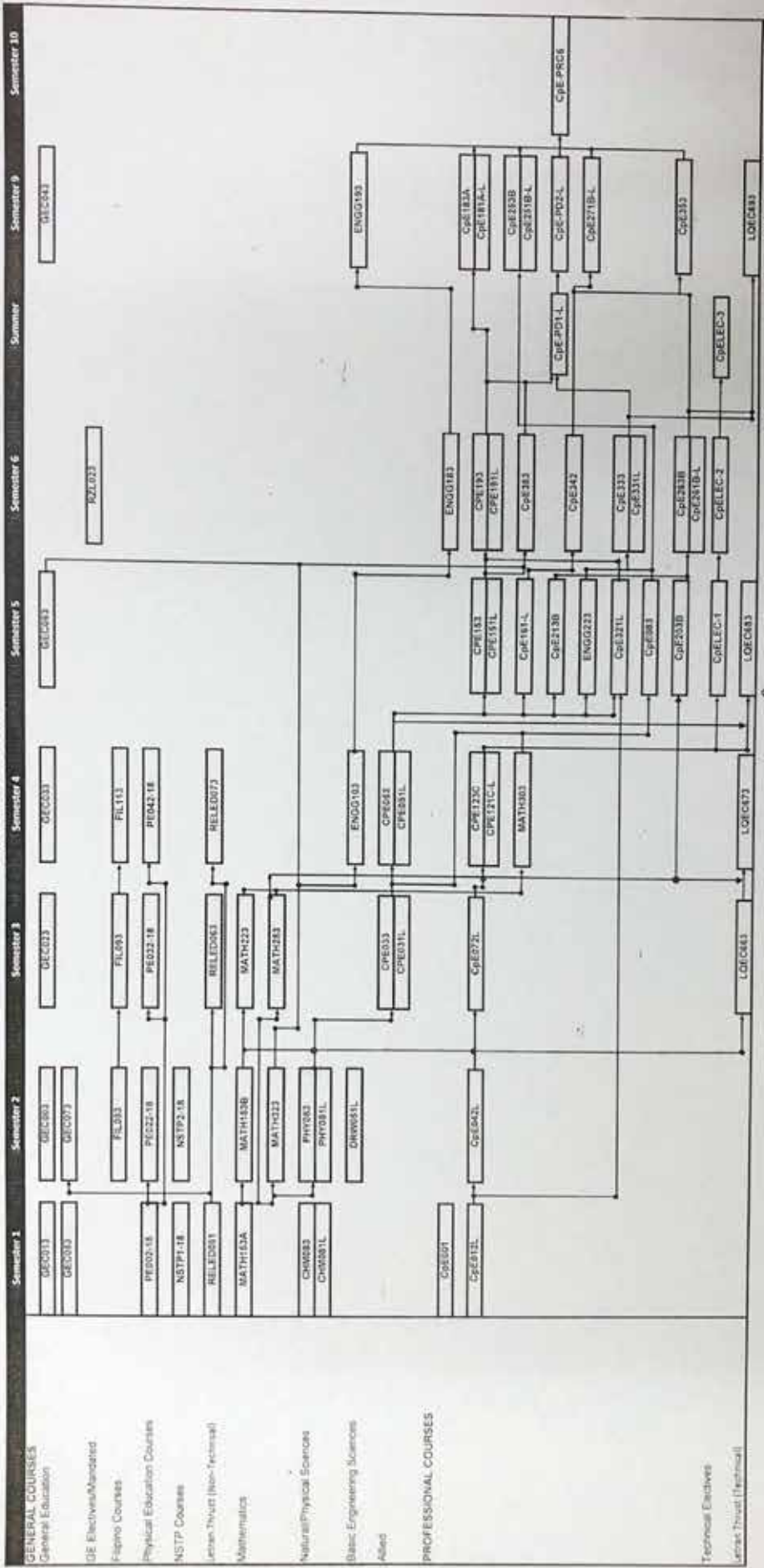
Reviewed by:
 MS. ELISSA NEUOTA
 Signature over Printed Name
 Registrar
 Date: _____

Approved by:
 DR. Z. NORDAN MANUNGAS
 Signature over Printed Name
 Vice President for Academic
 Date: _____

Office of the Vice President for Academics
 Colegio de San Juan de Letran Calamba
CURRICULUM MAP

AR-00-00-FO-50 rev.02.120117

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
 Curriculum Year 2018-2019



GENERAL COURSES
 General Education

DE Electives/Mandated

Filipino Courses

Physical Education Courses

NSTP Courses

Lesson Trust (Non-Technical)

Mathematics

Natural/Physical Sciences

Basic Engineering Sciences

Allied

PROFESSIONAL COURSES

Technical Electives

Lesson Trust (Technical)

Prepared by

ENGR. CHRISTOPHER V. GONZALES

Program Head, CPE

Date: 4-15-18

Reference: AR-00-00-CP-17

Noted by

DR. CORAZON B. REBONG

Academic Head

Date: 4/13/18

Reviewed by

MS. ELOISA A. GENOTA

Registrar

Date: 4-20-18

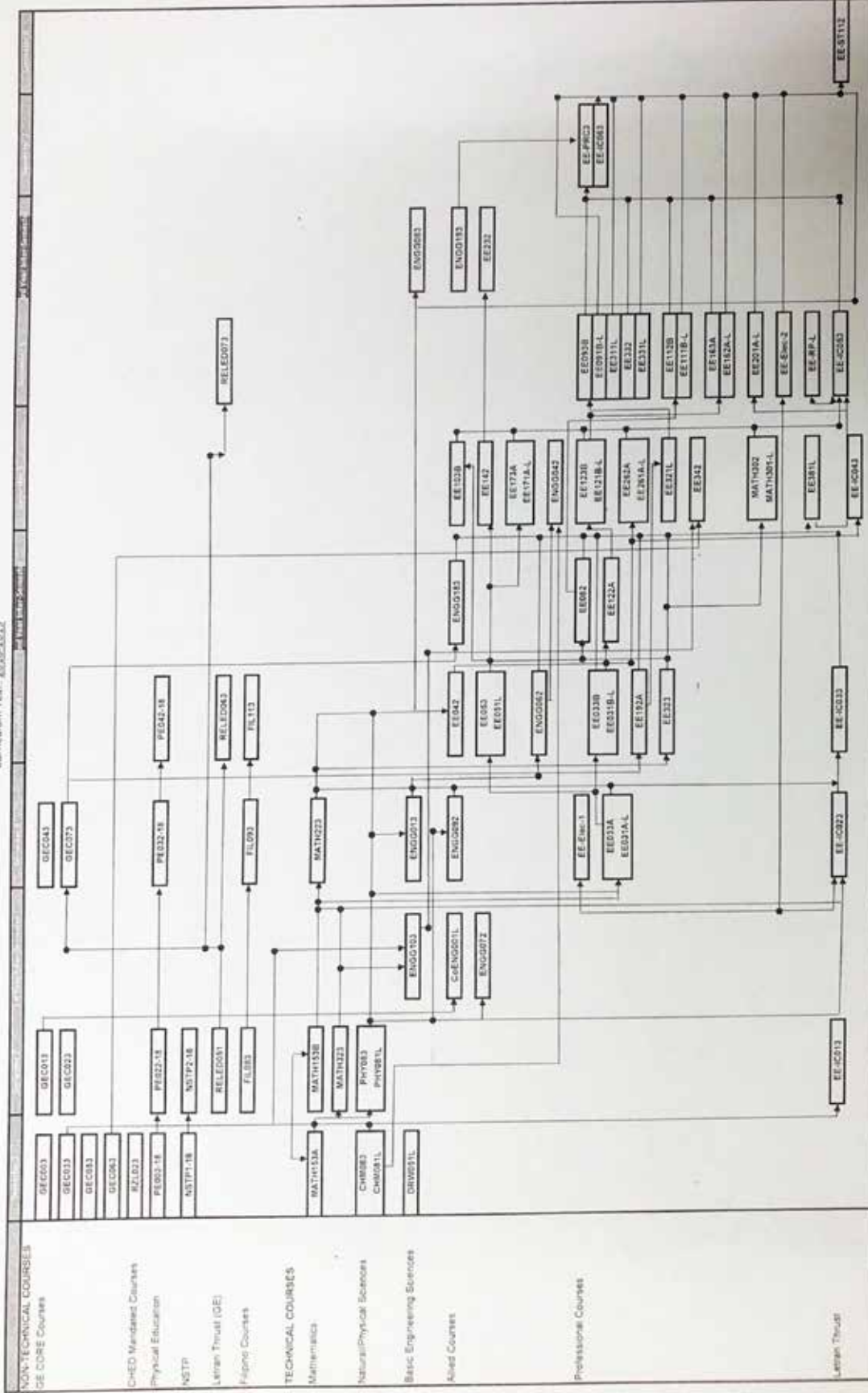
Approved by

DR. DR. N. MANINGAS

Vice President for Academics

Date

ELECTRICAL ENGINEERING PROGRAM
 Curriculum Year: 2018-2019



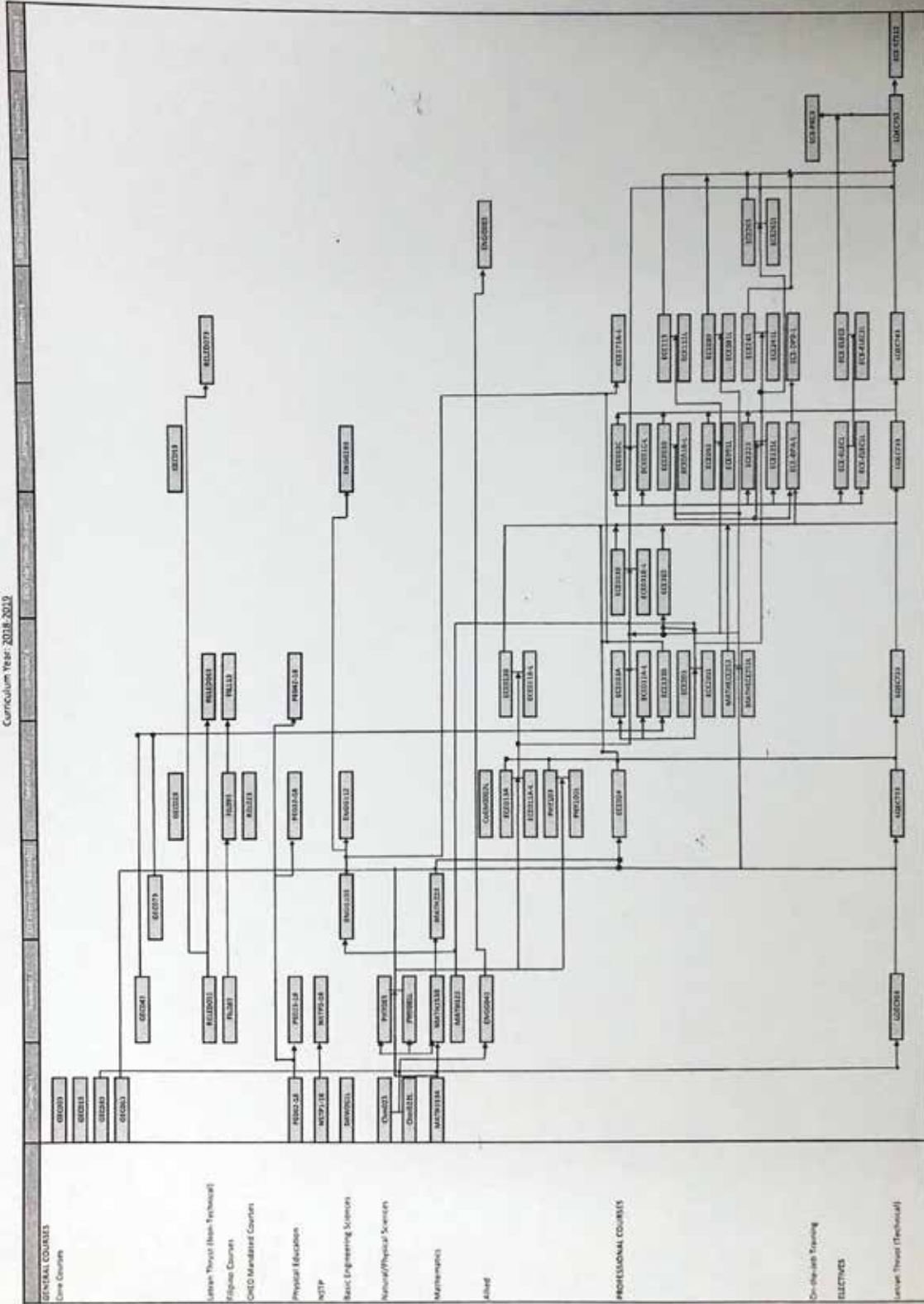
Noted by: *[Signature]*
 DR. CORAZON B. BIRSONG
 Signature over Printed Name
 Academic Head
 Date: 04/13/18

Reviewed by: *[Signature]*
 MS. ELOISA A. GENOTA
 Signature over Printed Name
 Registrar
 Date: _____

Approved by: *[Signature]*
 DR. GILBERTO M. MANINGAS
 Signature over Printed Name
 Vice President for Academics
 Date: 04/18/18

Prepared by: *[Signature]*
 ENGR. DONALD M. SARDAN
 Signature over Printed Name
 EE Program Co-Chair
 Date: 04/12/18

ELECTRONICS ENGINEERING PROGRAM
 Curriculum Year: 2018-2019



Approved by: *[Signature]*
 DR. ZANGRA N. MANINGGAS
 Signature over Printing Name
 Vice President for Academics
 Date: 4/18/18

Reviewed by: *[Signature]*
 MS. ELLEN A. GENOTA
 Signature over Printing Name
 Registrar
 Date: 4/18/18

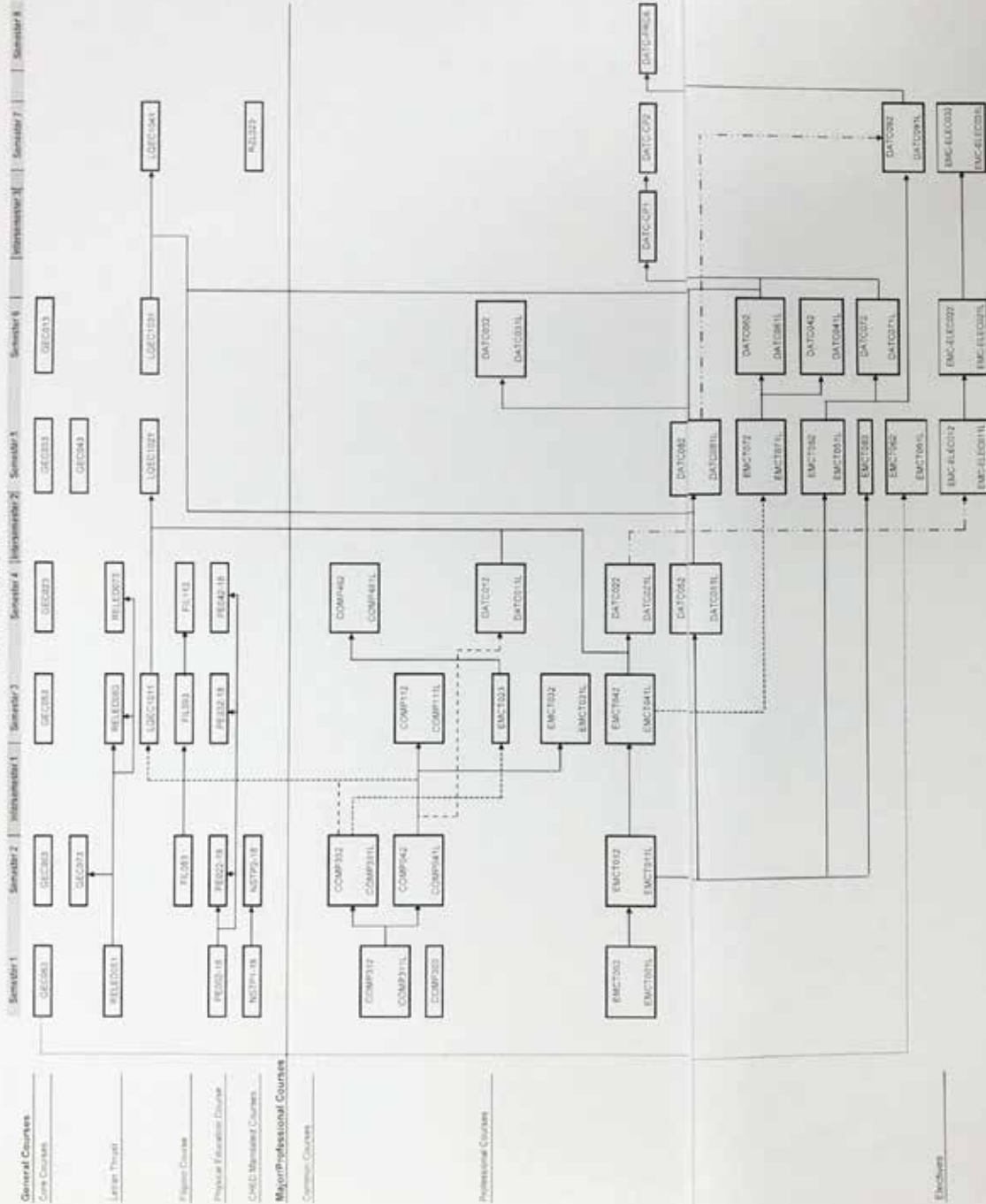
Noted by: *[Signature]*
 DR. CORAZON B. AQUINO
 Signature over Printing Name
 Academic Head
 Date: 4/13/18

Prepared by: *[Signature]*
 ENGR. RICHARD D. AQUINO
 Signature over Printing Name
 Program Officer/Co-Coordinator
 Date: 4/13/18
 Reference: M/EE-CC-04-11

CURRICULUM MAP

BACHELOR OF SCIENCE IN ENTERTAINMENT AND MULTIMEDIA COMPUTING
Specialization in Digital Animation Technology

Curriculum Year: 2018-2019



Approved by

 DR. CORAZON B. MABONG
 Signature over Printed Name
 Vice President for Academics
 Date: _____

Reviewed by

 MS. ELOISA A. GENOTA
 Signature over Printed Name
 Registrar
 Date: _____

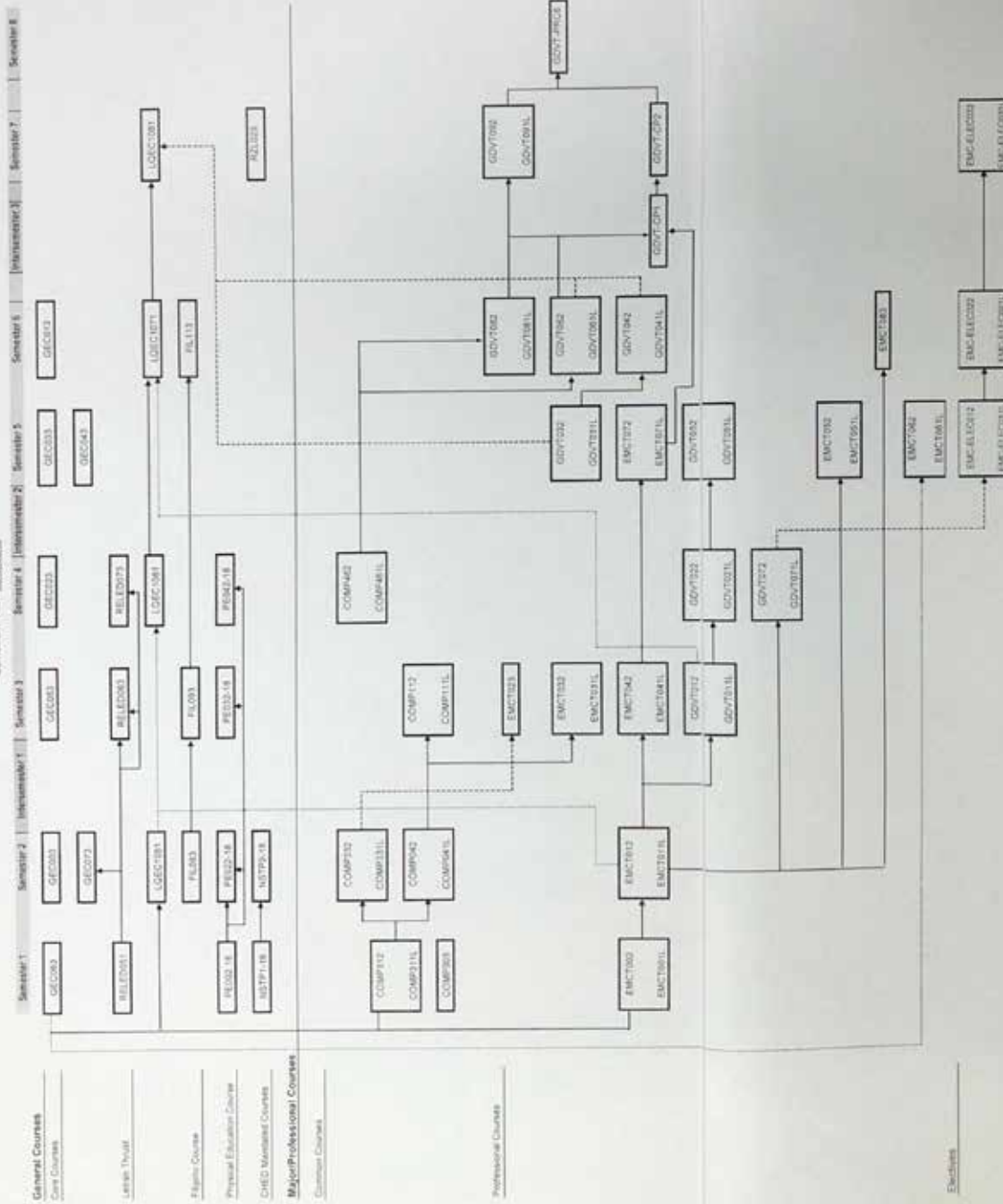
Noted by

 DR. CORAZON B. MABONG
 Signature over Printed Name
 Academic Head
 Date: _____

Prepared by

 LUVIM E. EUSEBIO
 Signature over Printed Name
 Program Chair/Co-Chair
 Date: 8-6-19

BACHELOR OF SCIENCE IN ENTERTAINMENT AND MULTIMEDIA COMPUTING
Specializing in Game Development
Curriculum Year 2018-2019



Proposed By: LUVIM EUSEBIO
Signature over Printed Name
Program Chair
Date: 4-18-19

Noted By: DR. CORAZON REBONG
Signature over Printed Name
Academic Head
Date: 4/18/19

Reviewed By: MS. ELIZABETH A. GEMOTA
Signature over Printed Name
Registrar
Date: 4/18/19

Approved By: DR. CANDISA N. MANNINGAS
Signature over Printed Name
Vice President for Academics
Date: _____

Enlighten the World
 Academics Division
CURRICULUM MAP
 Bachelor of Science in Hospitality Management
 Curriculum Year - 2019-2019

Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8

General Courses

Core Courses

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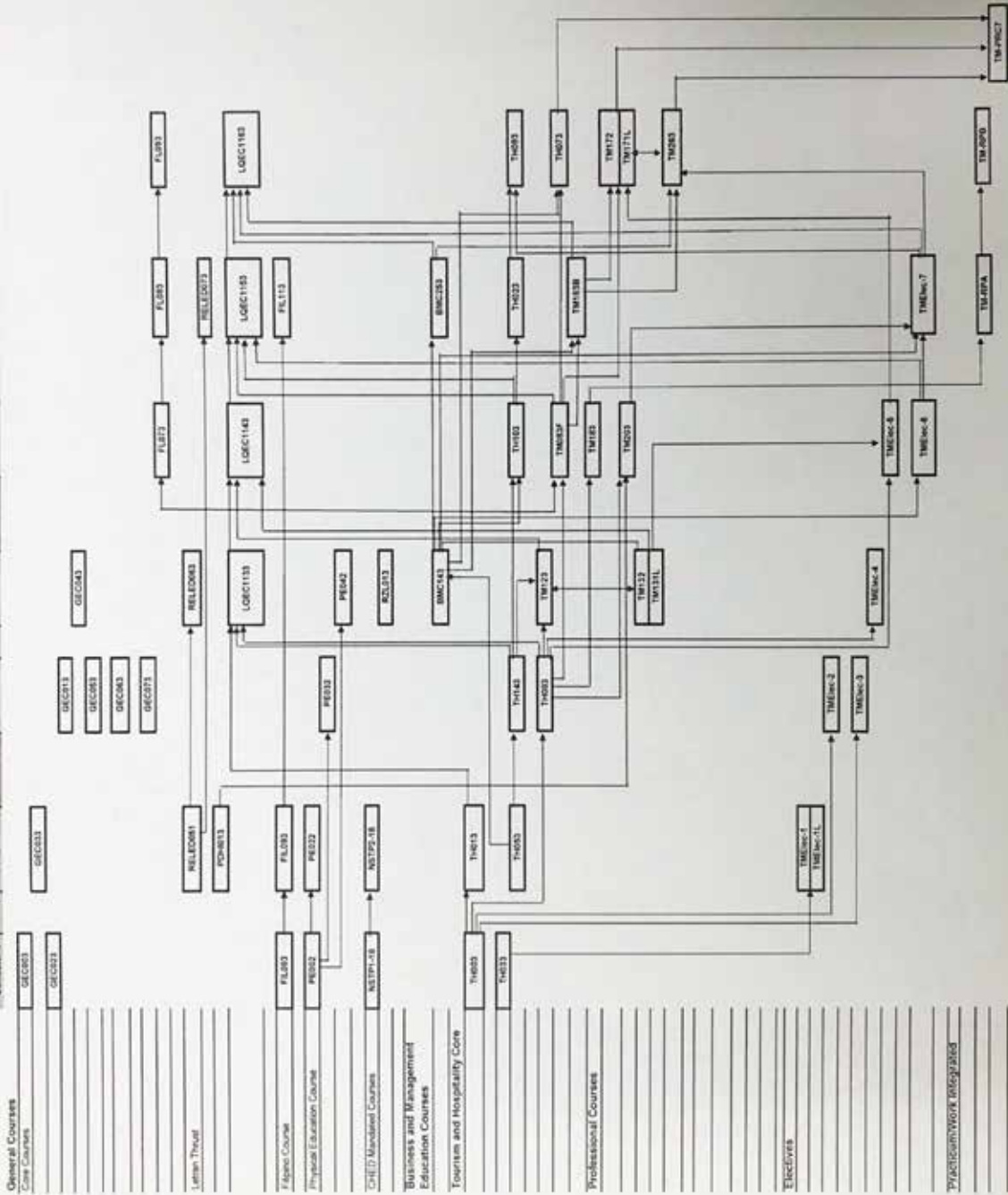
PE0001

PE0001

CURRICULUM MAP

Bachelor of Science in Tourism Management
Curriculum Year - 2018-2019

Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8



Approved by:
[Signature]
MS. ESCOLAR MANNINGAS
Signature over Printed Name
VP for Academics

Reviewed by:
[Signature]
MS. ESCOLAR GENOTA
Signature over Printed Name
Assistant VP for Academics

Approved by:
[Signature]
MR. ALEX MACARIO GENOTO
Signature over Printed Name
Academic Head

Proposed by:
[Signature]
MR. ALEX MACARIO GENOTO
Signature over Printed Name
Program Chair/Co-Chair