

**BACHELOR OF SCIENCE
INFORMATION TECHNOLOGY**
With Specialization in Web and Mobile Application Development

Program Description

The Bachelor of Science in Information Technology focuses in creating web applications and mobile applications. The program also includes the study of the utilization of both hardware and software technologies involving planning, installing, customizing, operating, managing and administering, and maintaining information technology infrastructure that provides computing solutions to address the needs of an organization.

The program prepares graduates to address various user needs involving the selection, development, application, integration and management of computing technologies within the organization.

Program Learning Outcomes

1. Apply knowledge of computing, science, and mathematics appropriate to the discipline.
2. Understand best practices and standards and their applications.
3. Analyze complex problems, and identify and define the computing requirements appropriate to its solution.
4. Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems.
5. Design, implement, and evaluate computer-based systems, processes, components, or programs to meet desired needs and requirements under various constraints.
6. Integrate IT-based solutions unto the user environment effectively.
7. Apply knowledge through the use of current techniques, skills, tools and practices necessary for the IT profession.
8. Function effectively as a member or leader of a development team recognizing the different roles within a team to accomplish a common goal.
9. Assist in the creation of an effective IT project plan.
10. Communicate effectively with the computing community and with society at large about complex computing activities through logical writing, presentation, and clear instructions.
11. Analyze the local and global impact of computing information technology on individuals, organizations and society.
12. Understand professional, ethical, legal, security and social issues and responsibilities in the utilization of information technology.
13. Recognize the need for and engage in planning self-learning and improving performance as a foundation for continuing professional development.

Admission Requirements

1. High School graduates and transferees seeking admission to the BSIT program must meet the criteria and cut-off scores set by the University for the BSIT program.
2. Shiftees must not have accumulated 15 or more units of failures.

Retention Policies

1. Students who fail in 50% or more of the subjects taken during the previous semester will be asked to shift to another course. Courses dropped are considered failed.
2. Students who fail in two or more major subjects in one semester shall be put on probation.
3. Student must not incur more than two failures in the same Math or IT Core/ Professional courses; otherwise they will be advised to drop from the program.

Teaching and Learning Activities

1. Lecture and Classroom discussions
2. Programming demonstration
3. Guided Hands-on Programming Sessions
4. Guided Design and Development of Project Specifications
5. Independent Project Requirements Gathering, Design and Implementation
6. Mentorship and Monitored Internships.
7. Case Analysis and Case Studies

BACHELOR OF SCIENCE - INFORMATION TECHNOLOGY
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FIRST YEAR

| First Semester | | Lec | Lab | Units | Prerequisite | Co-requisite |
|-----------------------|------------------------------------------------|-----------------|------------|--------------|---------------------|---------------------|
| CC101 | Introduction to Computing | 3 | | 3 | | |
| CC102 | Computer Programming 1 | 2 | 3 | 3 | | |
| ITP201 | Graphics Design | 2 | 3 | 3 | | |
| ARTAP | Art Appreciation | 3 | | 3 | | |
| MATHMW | Mathematics in the Modern World | 3 | | 3 | | |
| PCOM | Purposive Communication | 3 | | 3 | | |
| STS | Science, Technology and Society | 3 | | 3 | | |
| IRS1 | LaSallian Spirituality | 3 | | 3 | | |
| PED1 | Physical Education 1 (Wellness and Fitness) | 2 | | 2 | | |
| Total | | 30 hours | | 26 | | |

| Second Semester | | Lec | Lab | Units | Prerequisite | Co-requisite |
|------------------------|------------------------------------------------------------------|-----------------|------------|--------------|---------------------|---------------------|
| ITC101 | Introduction to Web Authoring | 2 | 3 | 3 | ITP201 | |
| CC103 | Computer Programming 2 | 2 | 3 | 3 | CC102 | |
| ITL301 | Usability, HCI and User Interaction Design | | 3 | 3 | CC102 | |
| ETHICS | Ethics | 3 | | 3 | | |
| FILI1 | Kontekstwalisadong Komunikasyon sa Filipino | 3 | | 3 | | |
| USELF | Understanding Self | 3 | | 3 | | |
| IRS2 | Christian Morality | 3 | | 3 | | |
| PED2 | Physical Education 2 (Team Sports and Rhythmic Activities) | 2 | | 2 | | |
| Math 1 | College Algebra | 3 | | 3 | | |
| Total | | 30 hours | | 26 | | |

| Summer | | Lec | Lab | Units | Prerequisite | Co-requisite |
|---------------|-----------------------------|----------------|------------|--------------|---------------------|---------------------|
| ITP202 | Operating Systems | 3 | | 3 | CC103 | |
| ITP203 | Object Oriented Programming | 2 | 3 | 3 | CC103 | |
| RVARTS | Reading Visual Art | 3 | | 3 | | |
| Total | | 11hours | | 9 | | |

SECOND YEAR

| First Semester | | Lec | Lab | Units | Prerequisite | Co-requisite |
|-----------------------|---------------------------------------------------|------------------|------------|--------------|---------------------|---------------------|
| ITP204 | Technopreneurship | 3 | | 3 | | |
| ITC102 | Database Management System 1 | 2 | 3 | 3 | CC103 | |
| ITP205 | Web Design and Implementation | 2 | 3 | 3 | ITC101 | |
| ITL302 | Computer Platform Technologies | 3 | | 3 | ITL301 | |
| PSPEAK | Public Speaking | 3 | | 3 | | |
| CWRLD | The Contemporary World | 3 | | 3 | | |
| PED3 | Physical Education 3 (Swimming and Recreation) | 2 | | 2 | | |
| NSTP1 | National Service Training Program 1 | 3 | | 3 | | |
| IGG1 | Group Guidance 1 | 1.5 | | 1.5 | | |
| Total | | 28.5hours | | 24.5 | | |

| Second Semester | | Lec | Lab | Units | Prerequisite | Co-requisite |
|------------------------|---------------------------------------------------|-----------------|------------|--------------|---------------------|---------------------|
| ITP206 | Web Application Development | 2 | 3 | 3 | ITP205 | |
| ITP207 | System Integration and Architecture 1 | 2 | 3 | 3 | ITL302 | |
| ITC103 | Database Management System 2 | 2 | 3 | 3 | ITC102 | |
| CC104 | Data Structures and Algorithms | 3 | | 3 | CC103 | |
| PED4 | Physical Education 4 (Individual and Dual Sports) | 2 | | 2 | | |
| Math 2 | Trigonometry | 3 | | 3 | | |
| NSTP2 | National Service Training Program 2 | 3 | | 3 | | |
| IRS3 | Spirituality in the Workplace | 3 | | 3 | | |
| Total | | 29 hours | | 23 | | |

THIRD YEAR

| First Semester | | Lec | Lab | Units | Prerequisite | Co-requisite |
|-----------------------|----------------------------------|----------------|------------|--------------|---------------------|---------------------|
| ITP208 | Systems Analysis and Design | 3 | | 3 | ITP204 | |
| ITP209 | Computer Networking 1 | 2 | 3 | 3 | ITL302 | |
| ITL303 | Web Animation Techniques | 2 | 3 | 3 | ITP206 | |
| ITC104 | Introduction to Mobile Authoring | 2 | 3 | 3 | ITP204 | |
| LOGIC | Logic | 3 | | 3 | | |
| RHIST | Readings in Philippine History | 3 | | 3 | | |
| GBOOKS | Great Books | 3 | | 3 | | |
| Math 3 | Discrete Structures | 3 | | 3 | | |
| Total | | 30hours | | 24 | | |

| Second Semester | | Lec | Lab | Units | Prerequisite | Co-requisite |
|------------------------|----------------------------------------|----------------|------------|--------------|---------------------|---------------------|
| ITP210 | Information Assurance and Security 1 | | 3 | 3 | ITP207 | |
| ITP211 | Mobile Application Development | 2 | 3 | 3 | ITC104 | |
| ITP212 | IT Trends | 3 | | 3 | CC101 | |
| ITP213 | Computer Networking 2 | 2 | 3 | 3 | ITP209 | |
| ITP214 | Social Issues & Professional Practices | 3 | | 3 | 3rd Year Standing | |
| ITP215 | Capstone and Research 1 | 3 | | 3 | ITP208 | |
| Math 4 | Probability and Statistics | 3 | | 3 | | |
| FILI2 | Filipino sa Iba't Ibang Disiplina | 3 | | 3 | FILI1 | |
| Total | | 28hours | | 24 | | |

FOURTH YEAR

| First Semester | | Lec | Lab | Units | Prerequisite | Co-requisite |
|-----------------------|----------------------------------------|-----------------|------------|--------------|---------------------|---------------------|
| ITP216 | Information Assurance and Security | 2 | 3 | 3 | ITP210 | |
| ITP217 | Capstone and Research 2 | 3 | | 3 | ITP215 | |
| ITP218 | Quantitative Methods | 3 | | 3 | Math 3 | |
| ITP219 | Content Management Systems | 3 | | 3 | ITP210 | |
| ITP220 | Systems Administration and Maintenance | 2 | 3 | 3 | ITP210 | |
| ITL304 | System Integration and Architecture 2 | 2 | 3 | 3 | ITP207 | |
| RIZAL | Rizal's Life, Works, and Writings | 3 | | 3 | | |
| PHLIT | Philippine Literature | 3 | | 3 | | |
| Total | | 28 hours | | 24 | | |

| Second Semester | | Lec | Lab | Units | Prerequisite | Co-requisite |
|------------------------|------------|------------------|------------|--------------|---------------------|---------------------|
| ITP221 | Internship | 9 | | 9 | 4th year Graduating | |
| Total | | 500 hours | | 9 | | |

BACHELOR OF SCIENCE - INFORMATION TECHNOLOGY
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SUMMARY OF REQUIRED COURSES

| | No. of Courses Required | Units Equivalent | Total Units |
|-----------------------------|----------------------------------------|-----------------------------|------------------------|
| General Education | | | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | 33 |
| Mathematics | | | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | 12 |
| Other Non-Technical Courses | | | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | 12 |
| Languages and Humanities | | | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | 15 |
| Physical Education | | | |
| | | 2 | |
| | | 2 | |
| | | 2 | |
| | | 2 | 8 |
| NSTP | | | |
| | | 3 | |
| | | 3 | 6 |
| Common Courses | | | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | 12 |
| Core Courses | | | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | 12 |
| Professional Courses | | | |
| | | 3 | |
| | | 3 | |
| | | 3 | |
| | | 3 | |

| | | |
|--------------------------------------------|---|------------|
| Web Design and Implementation | 3 | |
| Web Application Development | 3 | |
| Systems Analysis and Design | 3 | |
| Systems Integration and Architecture 1 | 3 | |
| Computer Networking 1 | 3 | |
| Information Assurance and Security 1 | 3 | |
| Mobile Application Development | 3 | |
| IT Trends | 3 | |
| Computer Networking 2 | 3 | |
| Social Issues and Professional Practices | 3 | |
| Capstone and Research 1 | 9 | |
| Information Assurance and Security 2 | 3 | |
| Capstone and Research 2 | 3 | |
| Quantitative Methods | 3 | |
| Content Management Systems | 3 | |
| Systems Administration and Maintenance | 3 | |
| Internship | 9 | 75 |
| IT Elective Courses | | |
| Usability, HCI and User Interaction Design | 3 | |
| Computer Platform Technologies | 3 | |
| Web Animation Techniques | 3 | |
| System Integration and Architecture 2 | 3 | 12 |
| Total | | 197 |