

CURRICULUM STRUCTURE FOR BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Based on CMO #25, Series of 2015, Computer Science Curricula 2013, Computing Curricula 2020

EFFECTIVE SCHOOL YEAR 2023-2024

DATE: 11/27/23

FIRST SEMESTER

FIRST YEAR

SECOND SEMESTER

| CRS. NO | DESCRIPTIVE TITLE | UNITS Lec Lab | TOTAL | CORE REQUISITE |
|---------|------------------------------------|------------------|-------|-------------------|
| CC101 | INTRODUCTION TO COMPUTING ** | 2 1 | 3 | NONE |
| CC102 | FUNDAMENTALS OF PROGRAMMING ** | 2 1 | 3 | NONE |
| GE101 | PURPOSIVE COMMUNICATION | 3 | 3 | NONE |
| GE501 | SCIENCE, TECHNOLOGY & SOCIETY | 3 | 3 | NONE |
| GE401 | MATHEMATICS IN THE MODERN WORLD | 3 | 3 | NONE |
| GE204 | ETHICS | 3 | 3 | NONE |
| GE206 | GENDER AND SOCIETY | 3 | 3 | NONE |
| PATH-F1 | MOVEMENT COMPETENCY TRAINING (MCT) | 2 | 2 | NONE |
| NSTP 1 | NATIONAL SERVICE TRAINING PROGRAM | 3 | 3 | NONE |

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| CRS. NO | DESCRIPTIVE TITLE | UNITS Lec Lab | TOTAL | CORE REQUISITE |
|---------|-------------------------------------|------------------|-------|-------------------|
| CC103 | INTERMEDIATE PROGRAMMING ** | 2 1 | 3 | CC102 |
| DS101 | DISCRETE STRUCTURES 1 | 3 | 3 | GE401 |
| GE201 | UNDERSTANDING THE SELF | 3 | 3 | NONE |
| GE202 | READINGS IN PHILIPPINE HISTORY | 3 | 3 | NONE |
| GE203 | THE CONTEMPORARY WORLD | 3 | 3 | NONE |
| GE301 | ART APPRECIATION | 3 | 3 | NONE |
| LIT2 | LITERATURES OF THE WORLD | 3 | 3 | NONE |
| PATH-F2 | EXERCISE-BASED FITNESS ACTIVITIES | 2 | 2 | NONE |
| NSTP 2 | NATIONAL SERVICE TRAINING PROGRAM 2 | 3 | 3 | NSTP1 |

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FIRST SEMESTER

SECOND YEAR

SECOND SEMESTER

| CRS. NO | DESCRIPTIVE TITLE | UNITS Lec Lab | TOTAL | CORE REQUISITE |
|---------|--|------------------|-------|-------------------|
| CC104 | DATA STRUCTURES AND ALGORITHMS ** | 2 1 | 3 | CC103 |
| SDF213 | OBJECT ORIENTED PROGRAMMING ** | 2 1 | 3 | CC103 |
| HCI211 | HUMAN COMPUTER INTERACTION ** | 2 1 | 3 | CC103 |
| CSD211 | LOGIC DESIGN AND DIGITAL COMPUTER CIRCUITS | 2 1 | 3 | DS101 |
| DS102 | DISCRETE STRUCTURES 2 | 3 | 3 | DS101 |
| GE207 | THE ENTREPRENEURIAL MIND | 3 | 3 | NONE |
| BCOM101 | PROFESSIONAL COMMUNICATIONS | 3 | 3 | GE101 |
| PATH-F3 | DANCE | 2 | 2 | NONE |

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| CRS. NO | DESCRIPTIVE TITLE | UNITS Lec Lab | TOTAL | CORE REQUISITE |
|---------|---|------------------|-------|-------------------|
| CC105 | INFORMATION MANAGEMENT ** | 2 1 | 3 | CC103 |
| OS101 | OPERATING SYSTEMS ** | 2 1 | 3 | CC104 |
| PL101 | PROGRAMMING LANGUAGES ** | 2 1 | 3 | CC104 |
| AR101 | COMPUTER ARCHITECTURE AND ORGANIZATION | 3 | 3 | CSD211 |
| AL101 | ALGORITHMS AND COMPLEXITY * | 3 | 3 | CC104 |
| SP101 | SOCIAL AND PROFESSIONAL ISSUES | 3 | 3 | 2ND YR |
| BCOM102 | TECHNICAL WRITING & PRES. SKILLS FOR CS | 3 | 3 | BCOM101 |
| PATH-F4 | SPORTS | 2 | 2 | NONE |

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FIRST SEMESTER

THIRD YEAR

SECOND SEMESTER

AL 102

| CRS. NO | DESCRIPTIVE TITLE | UNITS Lec Lab | TOTAL | CORE REQUISITE |
|---------|---|------------------|-------|-------------------|
| CC106 | APPLICATIONS DEVELOPMENT & EMERGING TECHNOLOGIES ** | 2 1 | 3 | CC105 |
| IAS101 | INFORMATION ASSURANCE AND SECURITY * | 3 | 3 | CC105 |
| AL102 | AUTOMATA THEORY AND FORMAL LANGUAGES * | 3 | 3 | AL101 |
| MCS311 | LINEAR ALGEBRA FOR CS | 3 | 3 | DS102 |
| CSE311 | CS ELECTIVE 1 | 3 | 3 | 3RD YR |
| GE205 | THE LIFE AND WORKS OF RIZAL | 3 | 3 | NONE |

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| CRS. NO | DESCRIPTIVE TITLE | UNITS Lec Lab | TOTAL | CORE REQUISITE |
|---------|--------------------------------|------------------|-------|-------------------|
| SE101 | SOFTWARE ENGINEERING 1 ** | 2 1 | 3 | CC105 SDF-213 |
| CSD322 | PLATFORM-BASED DEVELOPMENT ** | 2 1 | 3 | CC106 |
| CSD323 | MODELING AND SIMULATION * | 3 | 3 | AL101 |
| NC101 | NETWORKS AND COMMUNICATIONS ** | 2 1 | 3 | OS101 |
| MCS322 | STATISTICS AND PROBABILITY | 3 | 3 | MCS311 |
| CSE322 | CS ELECTIVE 2 | 3 | 3 | 3RD YR |

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SUMMER

| CRS. NO | DESCRIPTIVE TITLE | UNITS | CORE REQUISITE |
|---------|-------------------|-------|-------------------|
| PRAC101 | PRACTICUM *** | 3 | 3RD YR |

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FIRST SEMESTER

FOURTH YEAR

SECOND SEMESTER

| CRS. NO | DESCRIPTIVE TITLE | UNITS Lec Lab | TOTAL | CORE REQUISITE |
|---------|------------------------|------------------|-------|-------------------|
| SE102 | SOFTWARE ENGINEERING 2 | 2 1 | 3 | SE101 |
| THS101 | CS THESIS 1 *** | 2 1 | 3 | 4TH YR |
| CSE413 | CS ELECTIVE 3 | 3 | 3 | 4TH YR |

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| CRS. NO | DESCRIPTIVE TITLE | UNITS Lec Lab | TOTAL | CORE REQUISITE |
|---------|-------------------|------------------|-------|-------------------|
| THS102 | CS THESIS 2 *** | 2 1 | 3 | THS101 |

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CS Electives

- Computational Science
- Graphics and Visual Computing
- Intelligent Systems
- Parallel and Distributed Computing
- System Fundamentals

Practicum Requirements

- Total Nos. of Hrs. = 162
- Completed 70% of total number of units

Courses

No. of Courses Units

| | | |
|--|----|----|
| General Education Units | 12 | 36 |
| Common Courses | 6 | 18 |
| Professional Courses | 17 | 51 |
| Professional Electives | 3 | 9 |
| Additional Domain/Professional Courses | | |
| Addtl Professional Courses | 3 | 9 |
| Language and Humanities(English) | 2 | 6 |
| Mathematics | 2 | 6 |
| P.E. | 4 | 8 |
| NSTP | 2 | 6 |

Summary of Units: 149

Prepared by:

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College Dean

Recommending Approval:

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