

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (B.S. CS)

(Curriculum applicable to students who entered as freshmen beginning school year 2015-2016)

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|---------|--|-------------|------------|--------------|---------------|---------------|
| 1 | 1 | BIO011 | GENERAL BIOLOGY | 4.5 | - | 3.0 | | |
| 1 | 1 | ENG021 | ENGLISH FOR ACADEMIC STUDIES 1 | 4.5 | - | 3.0 | | |
| 1 | 1 | IT010 | I.T. FUNDAMENTALS | 3.0 | - | 2.0 | | |
| 1 | 1 | IT010L | I.T. FUNDAMENTALS (LAB) | - | 3.0 | 1.0 | | |
| 1 | 1 | MATH011 | ALGEBRA | 4.5 | - | 3.0 | | |
| 1 | 1 | SS019 | PHILIPPINE HISTORY, GOVERNMENT AND CONSTITUTION | 4.5 | - | 3.0 | | |
| 1 | 1 | NSTP010 | OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM | 3.0 | - | (3.0) | None | None |
| 1 | 1 | PE011 | PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASICS | - | 3.0 | (2.0) | | |
| 1 | 1 | VE011 | VALUES EDUCATION 1 | 1.5 | - | (1.0) | | |
| Total | | | | 25.5 | 6.0 | 15.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|---------|--|-------------|------------|--------------|---------------|---------------|
| 1 | 2 | CS100 | INTRODUCTION TO COMPUTER SYSTEMS | 4.5 | - | 3.0 | | |
| 1 | 2 | ENG022 | ENGLISH FOR ACADEMIC STUDIES 2 | 4.5 | - | 3.0 | ENG021 | |
| 1 | 2 | FIL001 | FILIPINO 1 | 4.5 | - | 3.0 | | |
| 1 | 2 | IT100 | ALGORITHMS AND PROBLEM SOLVING | 4.5 | - | 3.0 | | |
| 1 | 2 | MATH012 | PLANE AND SPHERICAL TRIGONOMETRY | 4.5 | - | 3.0 | MATH011 | |
| 1 | 2 | PE012 | PHYSICAL EDUCATION 2: DANCE AND MARTIAL ARTS | - | 3.0 | (2.0) | | |
| 1 | 2 | VE012 | VALUES EDUCATION 2 | 1.5 | - | (1.0) | VE011 | |
| Total | | | | 24.0 | 3.0 | 15.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|------------|--|-------------|-------------|--------------|---------------|---------------|
| 1 | 3 | ENG023 | ENGLISH FOR ACADEMIC STUDIES 3 | 4.5 | - | 3.0 | ENG022 | |
| 1 | 3 | FIL002 | FILIPINO 2 | 4.5 | - | 3.0 | FIL001 | |
| 1 | 3 | IT110P | COMPUTER PROGRAMMING CONCEPTS (PAIRED) | 3.0 | 4.5 | 3.0 | IT100 | |
| 1 | 3 | MATH013 | ANALYTIC GEOMETRY | 4.5 | - | 3.0 | MATH012 | |
| 1 | 3 | SS018 | CIVILIZATION AND DEVELOPMENT IN ASIA | 4.5 | - | 3.0 | | |
| 1 | 3 | NSTP011-2P | LITERACY TRAINING SERVICE | 4.0 | 3.0 | (3.0) | NSTP010 | |
| 1 | 3 | PE013 | PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS | - | 3.0 | (2.0) | | |
| Total | | | | 25.0 | 10.5 | 15.0 | | |

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| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|---------|--|-------------|-------------|--------------|---------------|---------------|
| 2 | 1 | CHM015 | GENERAL CHEMISTRY | 4.5 | - | 3.0 | | |
| 2 | 1 | CHM015L | GENERAL CHEMISTRY (LAB) | - | 3.0 | 1.0 | | CHM015 |
| 2 | 1 | CS106P | DATA STRUCTURES AND ALGORITHMS (PAIRED) | 3.0 | 4.5 | 3.0 | IT110P | |
| 2 | 1 | MATH140 | DISCRETE MATHEMATICS | 4.5 | - | 3.0 | MATH011 | |
| 2 | 1 | IT111P | OOP 1 - CONCEPTS IN OBJECT ORIENTED PROGRAMMING (PAIRED) | 3.0 | 4.5 | 3.0 | IT110P | |
| 2 | 1 | MATH014 | SOLID MENSURATION | 3.0 | - | 2.0 | MATH013 | |
| Total | | | | 18.0 | 12.0 | 15.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|---------|------------------------------------|-------------|------------|--------------|---------------|---------------|
| 2 | 2 | CS152 | HUMAN COMPUTER INTERACTION | 4.5 | - | 3.0 | | |
| 2 | 2 | ENG041L | ENGLISH AT THE WORKPLACE 1 | - | 3.0 | 1.0 | ENG023 | |
| 2 | 2 | CS120 | STRUCTURE OF PROGRAMMING LANGUAGES | 4.5 | - | 3.0 | CS106P | |
| 2 | 2 | MATH021 | CALCULUS 1 | 4.5 | - | 3.0 | MATH013 | |
| 2 | 2 | PHY015 | GENERAL PHYSICS | 4.5 | - | 3.0 | MATH011 | |
| 2 | 2 | PHY015L | GENERAL PHYSICS (LAB) | - | 3.0 | 1.0 | MATH011 | PHY015 |
| Total | | | | 18.0 | 6.0 | 14.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|---------|---|-------------|-------------|--------------|---------------|---------------|
| 2 | 3 | CS103 | SYSTEMS ANALYSIS AND DESIGN 1 | 4.5 | - | 3.0 | CS100 | |
| 2 | 3 | CS105P | INTRODUCTION TO RELATIONAL DATA BASE MANAGEMENT (PAIRED) | 3.0 | 4.5 | 3.0 | IT111P | |
| 2 | 3 | MATH022 | CALCULUS 2 | 4.5 | - | 3.0 | MATH021 | |
| 2 | 3 | IT112P | OOP 2 - PROGRAMMING WITH WINDOWS FORMS 1 (PAIRED) | 3.0 | 4.5 | 3.0 | IT111P | |
| 2 | 3 | IT130 | DATA COMMUNICATIONS AND INTRODUCTION TO NETWORKING TECHNOLOGIES | 4.5 | - | 3.0 | CS100 | |
| 2 | 3 | PE014 | PHYSICAL EDUCATION 5: TEAM SPORTS | - | 3.0 | (2.0) | PE013 | |
| Total | | | | 19.5 | 12.0 | 15.0 | | |

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| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|-----------|--|-------------|-------------|--------------|---------------|---------------|
| 3 | 1 | CPE131-1P | COMPUTER SYSTEMS ORGANIZATION AND ARCHITECTURE WITH ASSEMBLY LANGUAGE PROGRAMMING (PAIRED) | 3.0 | 4.5 | 3.0 | | |
| 3 | 1 | MATH110 | PROBABILITY AND STATISTICS | 4.5 | - | 3.0 | MATH011 | |
| 3 | 1 | IT114P | OOP 4 - PROGRAMMING USING WEB (PAIRED). | 3.0 | 4.5 | 3.0 | IT111P | |
| 3 | 1 | IT117P | JAVA PROGRAMMING (PAIRED) | 3.0 | 4.5 | 3.0 | IT112P | |
| 3 | 1 | SS012 | PSYCHOLOGY | 4.5 | - | 3.0 | | |
| Total | | | | 18.0 | 13.5 | 15.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|-----------|------------------------------------|-------------|------------|--------------|-----------------------|---------------|
| 3 | 2 | HUM012 | PHILOSOPHY OF THE HUMAN PERSON | 4.5 | - | 3.0 | | |
| 3 | 2 | CPE101-1P | DIGITAL DESIGN (PAIRED) | 3.0 | 4.5 | 3.0 | | |
| 3 | 2 | CS150P | SOFTWARE ENGINEERING (PAIRED) | 3.0 | 4.5 | 3.0 | CS103, IT112P, IT114P | |
| 3 | 2 | IT128 | INFORMATION ASSURANCE AND SECURITY | 4.5 | - | 3.0 | | |
| 3 | 2 | | CS PROFESSIONAL ELECTIVE 1 | 4.5 | - | 3.0 | | |
| Total | | | | 19.5 | 9.0 | 15.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|-------|----------------------------------|-------------|------------|--------------|---------------|---------------|
| 3 | 3 | CS151 | OPERATING SYSTEMS | 4.5 | - | 3.0 | CS106P | |
| 3 | 3 | SS017 | SOCIETY, CULTURE AND FAMILY LIFE | 4.5 | - | 3.0 | | |
| 3 | 3 | | CS PROFESSIONAL ELECTIVE 2 | 4.5 | - | 3.0 | | |
| 3 | 3 | | CS PROFESSIONAL ELECTIVE 3 | 3.0 | 4.5 | 3.0 | | |
| 3 | 3 | | CS PROFESSIONAL ELECTIVE 4 | 3.0 | 4.5 | 3.0 | | |
| 3 | 3 | VE013 | VALUES EDUCATION 3 | 1.5 | - | (1.0) | VE011 | |
| Total | | | | 21.0 | 9.0 | 15.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|---------|------------------------------|------------|-------------|--------------|---------------|---------------|
| 3 | 4 | IT180F | FIELD TRIP AND SEMINAR | - | 4.5 | 1.0 | CS150P | |
| 3 | 4 | | FREE ELECTIVE 1 | 3.0 | 4.5 | 3.0 | | |
| 3 | 4 | ENG042L | ENGLISH AT THE WORKPLACE 2 | - | 3.0 | 1.0 | ENG041L | |
| 3 | 4 | HUM013 | LITERATURE AND CREATIVE ARTS | 4.5 | - | 3.0 | | |
| Total | | | | 7.5 | 12.0 | 8.0 | | |

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| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|--------|----------------------------|-------------|------------|--------------|---------------|---------------|
| 4 | 1 | CS200P | THESIS 1 (PAIRED) | 3.0 | 4.5 | 3.0 | RES110P | |
| 4 | 1 | IT181 | ETHICS AND I.T. LAWS | 4.5 | - | 3.0 | IT180F | |
| 4 | 1 | | CS PROFESSIONAL ELECTIVE 5 | 4.5 | - | 3.0 | | |
| 4 | 1 | | CS PROFESSIONAL ELECTIVE 6 | 3.0 | 4.5 | 3.0 | | |
| 4 | 1 | | FREE ELECTIVE 2 | 4.5 | - | 3.0 | | |
| 4 | 1 | VE014 | VALUES EDUCATION 4 | 1.5 | - | (1.0) | VE011 | |
| Total | | | | 21.0 | 9.0 | 15.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|---------|--|-------------|-------------|--------------|---------------|---------------|
| 4 | 2 | CS201P | THESIS 2 (PAIRED) | 3.0 | 4.5 | 3.0 | CS200P | |
| 4 | 2 | ENG043L | ENGLISH AT THE WORKPLACE 3 | - | 3.0 | 1.0 | ENG042L | |
| 4 | 2 | SS014 | JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM | 4.5 | - | 3.0 | | |
| 4 | 2 | | CS PROFESSIONAL ELECTIVE 7 | 3.0 | 4.5 | 3.0 | | |
| 4 | 2 | | FREE ELECTIVE 3 | 4.5 | - | 3.0 | | |
| Total | | | | 15.0 | 12.0 | 13.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|----------|--|------------|------------|--------------|-------------------|---------------|
| 4 | 3 | CS198L | COMPREHENSIVE EXAMINATION MODULE (LAB) | - | 4.5 | (1.0) | 4th year standing | |
| 4 | 3 | HUM015 | HISTORY OF ARTS | 4.5 | - | 3.0 | | |
| 4 | 3 | | CS PROFESSIONAL ELECTIVE 8 | 3.0 | 4.5 | 3.0 | | |
| 4 | 3 | IT199R-2 | PRACTICUM | | | 6.0 | IT181 | |
| Total | | | | 7.5 | 9.0 | 12.0 | | |

Total Academic Units : 182.00

* See Table of Specs for Electives

+ Add lecture and laboratory hours of chosen elective courses as reflected in the Table of Specs

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SOFTWARE ENGINEERING SPECIALIZATION

Required Units of Specialization : 24.00

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|-------|------|-------|----------------------------------|---------|---------|--------------|---------------|---------------|
| 3 | 2 | CS121 | DESIGN AND ANALYSIS OF ALGORITHM | 4.5 | - | 3.0 | CS106P | |
| Total | | | | 4.5 | 0.0 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|-------|------|-------|------------------------------|---------|---------|--------------|---------------|---------------|
| 3 | 3 | CS122 | AUTOMATA AND LANGUAGE THEORY | 4.5 | - | 3.0 | MATH140 | |
| Total | | | | 4.5 | 0.0 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|-------|------|---------|------------------------------|---------|---------|--------------|---------------|---------------|
| 3 | 3 | RES110P | METHODS OF RESEARCH (PAIRED) | 3.0 | 4.5 | 3.0 | MATH110 | |
| Total | | | | 3.0 | 4.5 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|-------|------|--------|--------------------|---------|---------|--------------|---------------|---------------|
| 3 | 3 | IT150P | MULTIMEDIA SYSTEMS | 3.0 | 4.5 | 3.0 | IT112P | |
| Total | | | | 3.0 | 4.5 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|-------|------|-------|--------------------------|---------|---------|--------------|---------------|---------------|
| 4 | 1 | CS123 | MODELLING AND SIMULATION | 4.5 | - | 3.0 | MATH022 | |
| Total | | | | 4.5 | 0.0 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|-------|------|--------|---------------------------|---------|---------|--------------|---------------|---------------|
| 4 | 1 | IT118P | ADVANCED JAVA PROGRAMMING | 3.0 | 4.5 | 3.0 | IT117P | |
| Total | | | | 3.0 | 4.5 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|-------|------|--------|------------------|---------|---------|--------------|---------------|---------------|
| 4 | 2 | IT119P | GAME PROGRAMMING | 3.0 | 4.5 | 3.0 | IT117P | |
| Total | | | | 3.0 | 4.5 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|-------|------|--------|------------------------------|---------|---------|--------------|---------------|---------------|
| 4 | 3 | CS153P | SOFTWARE ENGINEERING PROJECT | 3.0 | 4.5 | 3.0 | CS150P | |
| Total | | | | 3.0 | 4.5 | 3.0 | | |

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NETWORKING AND DATA COMMUNICATION SPECIALIZATION

Required Units of Specialization : 24.00

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|-------|----------------------------------|------------|------------|--------------|---------------|---------------|
| 3 | 2 | CS121 | DESIGN AND ANALYSIS OF ALGORITHM | 4.5 | - | 3.0 | CS106P | |
| Total | | | | 4.5 | 0.0 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|-------|------------------------------|------------|------------|--------------|---------------|---------------|
| 3 | 3 | CS122 | AUTOMATA AND LANGUAGE THEORY | 4.5 | - | 3.0 | MATH140 | |
| Total | | | | 4.5 | 0.0 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|---------|------------------------------|------------|------------|--------------|---------------|---------------|
| 3 | 3 | RES110P | METHODS OF RESEARCH (PAIRED) | 3.0 | 4.5 | 3.0 | MATH110 | |
| Total | | | | 3.0 | 4.5 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|--------|--|------------|------------|--------------|---------------|---------------|
| 3 | 3 | CS161P | FUNDAMENTALS OF COMPUTER NETWORKS (PAIRED) | 3.0 | 4.5 | 3.0 | IT130 | |
| Total | | | | 3.0 | 4.5 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|-------|--------------------------|------------|------------|--------------|---------------|---------------|
| 4 | 1 | CS123 | MODELLING AND SIMULATION | 4.5 | - | 3.0 | MATH022 | |
| Total | | | | 4.5 | 0.0 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|--------|---|------------|------------|--------------|---------------|---------------|
| 4 | 1 | CS162P | PRINCIPLES OF NETWORK SECURITY (PAIRED) | 3.0 | 4.5 | 3.0 | IT130 | |
| Total | | | | 3.0 | 4.5 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|-------|------------------------|------------|------------|--------------|---------------|---------------|
| 4 | 2 | CS163 | NETWORK ADMINISTRATION | 4.5 | - | 3.0 | IT130 | |
| Total | | | | 4.5 | 0.0 | 3.0 | | |

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|--------------|------|--------|---|------------|------------|--------------|---------------|---------------|
| 4 | 3 | CS164P | NETWORKING AND DATA COMM PROJECT (PAIRED) | 3.0 | 4.5 | 3.0 | IT130 | |
| Total | | | | 3.0 | 4.5 | 3.0 | | |

FREE ELECTIVES FOR BATCH 2014

Required Units of Specialization : 9.00

| Year | Term | Code | Title | Lec Hrs | Lab Hrs | Credit Units | Prerequisites | Co-requisites |
|------|------|----------|---|---------|---------|--------------|---------------|---------------|
| | | IT116P | OOP 6 - INTRODUCTION TO MOBILE PROGRAMMING (PAIRED) | 3.0 | 4.5 | 3.0 | IT117P | |
| | | LANG120 | FOREIGN LANGUAGE 1 | 4.5 | - | 3.0 | | |
| | | ACT101-9 | FUNDAMENTAL ACCOUNTING FOR BUSINESS | 4.5 | - | 3.0 | | |