

**ACADEMIC DEGREE COMPARISONS**

**Computer Science Engineering (BS-CSE)**

- Computer Science Core (38)
- 4 – COP3502C Prog. Fundamentals 1**
- 4 – COP3503C Prog. Fundamentals 2
- 3 – COT3100 App. Of Discrete Struct.
- 3 – COP3530 Data Struct. & Alg.
- 3 – CDA3101 Intro to Comp. Org.
- 3 – CEN3031 Intro to Software Engineering
- 3 – CIS4301 Info & DB Sys & Dev 1
- 3 – COP4600 Operating Systems
- 3 – COP4020 Programming Language Concepts
- 3 – COP4533 Algorithm Abstraction & Design
- 3 – CNT4007 Comp. Network Fund.
- 3 – CIS4914 OR EGN4952

**Computer Science/Technical Electives (18)**

- Mathematics (18)
- 4 – MAC2311 Analytic Geometry & Calculus 1**
- 4 – MAC2312 Analytic Geometry & Calculus 2**
- 4 – MAC2313 Analytic Geometry & Calculus 3**
- 3 – MAS3114 Comp. Linear Algebra
- 3 – STA3032 Engineering Statistics

- Physics (8)
- 3 – PHY2048 Physics w/Cal 1**
- 1 – PHY2048L Lab for PHY2048
- 3 – PHY2049 Physics w/Cal 2**
- 1 – PHY2049L Lab for PHY2049

- English & Communication (6)
- 3 – ENC3246 Prof. Communications for Engineers
- 3 – Additional writing/public speaking course

**Ethics (1)**

**Interdisciplinary Electives (14)**

**General Elective (1)**

- General Education (16)
- 6 – Social & Behavioral Sciences
- 6 – Humanities
- 4 – Hum. or Soc./Beh. Sci. or Phy./Bio. Sci.

**120 Total Semester Hours**

**Computer Science (BS-CSC)**

- Computer Science Core (35)
- 4 – COP3502C Prog. Fundamentals 1**
- 4 – COP3503C Prog. Fundamentals 2
- 3 – COT3100 App. Of Discrete Struct.
- 3 – COP3530 Data Struct. & Alg.
- 3 – CDA3101 Intro to Comp. Org.
- 3 – CEN3031 Intro to Software Engineering
- 3 – CIS4301 Info & DB Sys & Dev 1
- 3 – COP4600 Operating Systems
- 3 – COP4020 Programming Language Concepts
- 3 – COP4533 Algorithm Abstraction & Design
- 3 – CIS4914 OR EGN4952

**Computer Science/Technical Electives (9)**

- Mathematics (18)
- 4 – MAC2311 Analytic Geometry & Calculus 1**
- 4 – MAC2312 Analytic Geometry & Calculus 2**
- 4 – MAC2313 Analytic Geometry & Calculus 3**
- 3 – MAS3114 Comp. Linear Algebra
- 3 – STA3032 Engineering Statistics

- Physics (8/10)
- 3 – PHY2048 Physics w/Cal 1**
- 1 – PHY2048L Lab for PHY2048
- 3 – PHY2049 Physics w/Cal 2**
- 1 – PHY2049L Lab for PHY2049

- OR
- 4 – PHY2053 Physics 1**
- 1 – PHY2053L Lab for PHY2053
- 4 – PHY2054 Physics 2**
- 1 – PHY2054L Lab for PHY2054

- English & Communication (3)
- 3 – ENC3246 Prof. Communications for Engineers

**Electives (10)**

- General Education (37)
- 3 – Composition
- 9 – Social & Behavioral Sciences
- 6 – Biological Sciences
- 9 - Humanities
- 0-10 – Foreign Language Proficiency

**120 Total Semester Hours**

**Digital Arts and Sciences (BS-DAS)**

- Computer Science Core (28)
- 4 – COP3502C Prog. Fundamentals 1
- 4 – COP3503C Prog. Fundamentals 2
- 3 – COT3100 App. Of Discrete Struct.
- 3 – COP3530 Data Struct. & Alg.
- 3 – CEN3031 Intro to Software Engineering
- 3 – CAP4730 Comp. Struc. In Comp. Graphics
- 3 – CEN4721C OR CAP4800
- 3 – COP4020 OR COP4600
- 3 – COT4501 OR MAD 4401

**Computer Science/Technical Electives (6)**

- Digital Arts & Science Core (18)
- 3 – CAP3032 Interactive Modeling & Animation
- 3 – CAP3220 Intro to Comp-Aided Modeling
- 3 – CAP3034 Intro Computer-Aided Animation
- 3 – CAP3027 Intro to DAS
- 3 – CAP3020 Th. & Prac. Of Multimedia Prod
- 3 – CIS4914 Sr Project

- Art (9)
- 3 – ARH2051 Introduction Art History**
- 3 – ART2305C Perceptual Drawing
- 3 – ART2701C Sculpture: Form & Space

- Mathematics (18)
- 4 – MAC2311 Analytic Geometry & Calculus 1**
- 4 – MAC2312 Analytic Geometry & Calculus 2**
- 4 – MAC2313 Analytic Geometry & Calculus 3**
- 3 – MAP2302 Differential Equations**
- 3 – MAS3114 OR MAS4105

- Physics (8)
- 3 – PHY2048 Physics w/Cal 1**
- 1 – PHY2048L Lab for PHY2048
- 3 – PHY2049 Physics w/Cal 2**
- 1 – PHY2049L Lab for PHY2049

- Chemistry (3)
- 3 – CHM2045 OR CHM2095**

**Interdisciplinary Electives (15)**

- General Education (18)
- 3 – Composition
- 6-9 – Social & Behavioral Sciences
- 6-9 – Humanities
- 6 – International and Diversity

**120+ Total Semester Hours**

**Computer Engineering (BS-CPE)**

- 2 – EGN2020C Engineering Design & Society
- Computer Science Core (23)
- 4 – COP3502C Prog. Fundamentals 1
- 4 – COP3503C Prog. Fundamentals 2
- 3 – COT3100 App. Of Discrete Struct.
- 3 – COP3530 Data Struct. & Alg.
- 3 – CDA3101 Intro to Comp. Org.
- 3 – CEN3031 Intro to Software Engineering
- 3 – COP4600 Operating Systems

- Electrical Engineering Core (20)
- 4 – EEL3111C Circuits 1
- 4 – EEL3135 Signals & Systems
- 4 – EEL3701C Digital Logical & Computer Systems
- 4 – EEL3744C Microprocessor Applications
- 4 – EEL4712C Digital Design

- Design I & II Sequences (6)
- CEN3907 & CEN3908 (CpE Design)
- EGN4951 & EGN4952 (IPPD)

**Technical Electives (18)**

- Mathematics (21)
- 4 – MAC2311 Analytic Geometry & Calculus 1**
- 4 – MAC2312 Analytic Geometry & Calculus 2**
- 4 – MAC2313 Analytic Geometry & Calculus 3**
- 3 – MAP2302 Differential Equations**
- 3 – MAS3114 OR MAS4105
- 3 – STA3032

- Physics (6)
- 3 – PHY2048 Physics w/Cal 1**
- 3 – PHY2049 Physics w/Cal 2**

- English & Communication (3)
- 3 – ENC3246 Prof. Communications for Engineers

**Ethics (1)**

**Enrichment Electives (minimum 7)**

**General Education Physical and Biological Sciences (4)**

- General Education (15)
- 3 – Composition
- 6 – Social & Behavioral Sciences
- 6 – Humanities
- 6 – International and Diversity

**126+ Total Semester Hours**