ACADEMIC DEGREE COMPARISONS

Computer Science Engineering (BS-CPS)

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