2021-2022 Catalog: Computer Engineering 8 Semester Completion Path - Course Dependencies shown

Updated: July 8, 2021

CSE 110 (2 cr) FWS Prog. Bldg Blocks

ECEN 106 (2 cr) FWS Computer Systems

ECEN 101 (1 cr) FWS Intro to EE and CE

Quantitative Reasoning MATH 112X (4 cr) Calculus I

Writing ENG 150 (3 cr) Writing/Reasoning

College Success (Take 1) GE 101 (1 cr) GS 101 (2 cr) GS 150 (2 cr)

REL 200C (2 cr) Eternal Family

CSE 111 (2 cr) FWS Prog. w/ Functions

CSE 121c (1 cr) FWS C Prog. Language

ECEN 150 (3 cr) FWS Circuit Analysis I

Natural Science CHEM 105 (3 cr) Gen Chem I

CHEM 105L (1 cr) Gen Chem Lab I

Social Science (Take 1) GECIV xxx (3 cr) ECON xxx (3 cr GEINT xxx (3 cr) HIST xxx (3 cr) POLSC xxx (3 cr) CHILD 210 (3 cr) FAML 160 (3 cr) PSYCH 111 (3 cr)

REL 225C (2 cr) Found of Rest

CSE 280 (2 cr) Discrete Math I

CSE 210 (2 cr) FWS Prog. w/ Classes

ECEN 240 (3 cr) FWS Fund Dig Sys

Natural Science PH 121 (3 cr) Principles of Physics I

MATH 341 (3 cr) Linear Algebra

REL 250C (2 cr) Jesus Christ Gospel

CSE 121A (1 cr), CSE 121B (1 cr), or CSE 220C (1 cr).

CSE 212 (2 cr) FWS Prog. w/ Data Structures

ECEN 260 (3 cr) FWS Microproc Sys Des

ECEN 250 (4 cr) FWS Circuit Analysis II

Natural Science PH 123 (3 cr) Principles of Physics II

REL 275C (2 cr) Doctrine of BoM

CSE 310 (4 cr) Applied Programming

ECEN 340 (3 cr) FS Digital Sys Design

ECEN 350 (3 cr) FW Elec Devices & Cir

MATH 221A,B,C, or D (3 cr) Statistics or MATH 330 (3 cr) Engineering Statistics

REL (2 cr) (Elective)

CSE 130 (2 cr) or CSE 251 (3cr)

ECEN 324 (3 cr) WS Computer Arch

ECEN 361 (3 cr) FW Embedded System

ECEN 398R (1 cr) FWS Internship
----- or -----
ECEN 397 (3 cr) & (Take 1) ECEN 351 (3 cr) ECEN 361 (3 cr) ECEN 420 (3 cr) ECEN 430 (3 cr) ECEN 461 (3 cr) ECEN 470 (3 cr) & (Take 3 cr) ECEN 300 – 499 (3 cr) (No double counting)

ECEN 499 (3 cr) FWS Senior Project

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Math and Science
Take 4 of 8 credits from the following:

CSE 380 (4 cr)
BIO 180 & 180L (4 cr)
BIO 181 & 181L (4 cr)
BIO 221 & 222 (4 cr)
BIO 240 (4 cr)
BIO 264 & 264L (4 cr)
CHEM 106&106L (4 cr)

GEOL111&111L (4 cr)
GEOL 112 (4cr)
GEOL 404 (3 cr)
GEOL 425 (3 cr)
GEOL 435 (3 cr)
PH 220 (3 cr)
PH 250 (1 cr)

MATH 113 (3 cr)
MATH 215 (4 cr)
MATH 316 (4 cr)
MATH 335 (3 cr)
MATH 411 (3 cr)
MATH 423 (3 cr)

REL (2 cr) (Elective)

General Electives (3 of 15 cr)

General Electives (3 of 15 cr)

Math and Science
Take 4 of 8 credits from the following:

CSE 380 (4 cr)
BIO 180 & 180L (4 cr)
BIO 181 & 181L (4 cr)
BIO 221 & 222 (4 cr)
BIO 240 (4 cr)
BIO 264 & 264L (4 cr)
CHEM 106&106L (4 cr)

GEOL111&111L (4 cr)
GEOL 112 (4cr)
GEOL 404 (3 cr)
GEOL 425 (3 cr)
GEOL 435 (3 cr)
PH 220 (3 cr)
PH 250 (1 cr)

MATH 113 (3 cr)
MATH 215 (4 cr)
MATH 316 (4 cr)
MATH 335 (3 cr)
MATH 411 (3 cr)
MATH 423 (3 cr)

REL (2 cr) (Elective)

General Electives (3 of 15 cr)

General Electives (3 of 15 cr)

General Electives (3 of 15 cr)

Arts & Humanity (Take 1) HUM xxx (3 cr) ART xxx (3 cr) GECIV 105 (3 cr) HIST 201 (3 cr) TA xxx (3 cr) ENG xxx (3 cr) MUSIC 101 (3 cr) Any Foreign Language Course (4 cr)

Writing (Take 1) ENG 301 (3 cr) BUS 301 (3 cr) GEOL 316 (3 cr) HUM 305 (3 cr)

ECEN 461 (3 cr) W Adv Embed System

General Electives: **Recommended but not limited to these courses. For suggested CSE electives, see bit.ly/byuicse-2020 (15 cr)**

ME 310 (3 cr) Electr-Mech Dev II

ECEN 451 (3 cr) W Semicon Proc Eng

ECEN 440 (3 cr) F Data & Comp Com

ECEN 420 (3 cr) F RF Circuits

ECEN 351 (3 cr) W VLSI System Design

ECEN 430 (3 cr) S Signal & Power Integrity

ECEN 410 (3 cr) W Power Systems

ECEN 380 (3 cr) FW Signals & Systems

ECEN 480 (3 cr) W Digital Signal Proc

ECEN 390 (3 cr) FS Elect & Magnet

ECEN 470 (3 cr) F Feedback Control

ECEN 490R (3 cr) Special Topics

15-16 credits	15 credits	15 credits	15 credits	15 credits	14 - 15 credits	15 credits	15 credits

BYU IDAHO