BS in Computer Science [Fall 2020 Catalog]

Requisites & Prerequisites - (8) (30 cr. hrs.)

MAS 3105 Linear Algebra (4)

MAC 2311 Calculus I (4)

PHY 2048/2048L Univ Physics I with Lab (4)

PHY 2049/2049L Univ Physics II with Lab (4)

STA 3032 Prob and Stats for Engin (4)

MAC 2312 Calculus II (4)

COT/CDA/CEN/CIS/CNT/COP/COT

Any 3XXX or 4XXX
CAP/CDA/CEN/CIS/CNT/COP/COT

Select 9 credits of the following

MAC1101 or MAC1147

Common Core & Major Requirements - (16) (50 cr. hrs.)

COT 3100 Computational Structures (F, S, Su)

CIS 3253 Legal & Ethical Issues in Cmptng GW (F, S, Su)

COP 3503 Programming II (F, S, Su)

CDA 3100 Computer Org & Arch (4) (S)

COP 2220 Programming I (F, S, Su)

PHY 1020

MAC1147

MAC 2311 Calculus I (4)

PHY 2048/2048L Univ Physics I with Lab (4)

PHY 2049/2049L Univ Physics II with Lab (4)

STA 3032 Prob and Stats for Engin

MAS 3105 Linear Algebra (4)

Cot/CDA/CEN/CIS/CNT/COP/COT

Any 3XXX or 4XXX
CAP/CDA/CEN/CIS/CNT/COP/COT

Any 3XXX or 4XXX
CAP/CDA/CEN/CIS/CNT/COP/COT

Any 3XXX or 4XXX
CAP/CDA/CEN/CIS/CNT/COP/COT

Major Electives (3)
(9 cr. hrs.)

Select 9 credits of the following

Any 3XXX or 4XXX
CAP/CDA/CEN/CIS/CNT/COP/COT

Any 3XXX or 4XXX
CAP/CDA/CEN/CIS/CNT/COP/COT

Any 3XXX or 4XXX
CAP/CDA/CEN/CIS/CNT/COP/COT

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Computer Science Class Flowchart.
BS in Computer Science [Fall 2020 Catalog]

- Requisites & Prerequisites – (8) (30 credit hours)
- All courses are 3 credit hours unless otherwise indicated
- 59 upper level hours and 120 total hours are required for graduation
- Exit Requirement: Must give two spoken presentations in 3XXX or 4XXX Computing courses.

- Speech or Public Speaking (SPC prefix); taught by another department
- Science for Science major; taught by another department
- MAC2311 Calculus I; 4 credits; taught by another department; Prerequisites: MAC1147
- MAC2312 Calculus II; 4 credits; taught by another department; Prerequisites: MAC2311 Calculus I
- PHY2048/2048L University Physics I with Lab; 5 credits; taught by another department; Prerequisites: MAC2311 Calculus I
- PHY2049/2049L University Physics I with Lab; 5 credits; taught by another department; Prerequisites: PHY2049/2049L and MAC2312
- COP2220 Programming I; fall, spring and summer
- COT3100 Computational Structures; fall, spring and summer; Computing Common Core; Prerequisites: MAC1101 or MAC1105 or MAC1147
- CIS3253 Legal & Ethical Issues in Computing; fall, spring and summer; Computing Common Core; Prerequisites: COP2220 Programming I
- COP3503 Programming II; fall, spring and summer; Computing Common Core; Prerequisites: COP2220 Programming I
- CDA3100 Computer Org & Arch; 4 credits; spring; Prerequisites: COP2220 Programming I
- COT3210 Theory of Computation; fall; Prerequisite: COT3100 Computational Structures
- COP3530 Data Structures; fall, spring and summer; Prerequisites: COT3100 Computational Structures and COP3503 Programming II
- CNT4504 Computer Networks; fall, spring and summer; Computing Common Core; Prerequisites: COP3503 Programming II
- COP3703 Intro to Databases; fall, spring and summer; Computing Common Core; Prerequisites: COP3503 Programming II
- COP3404 Systems Software; fall; Prerequisites: CDA3100 Computer Org & Arch and COP3503 Programming II
- COP4620 Constr of Lang Translators; spring; Prerequisites: COT3210 Theory of Computation and COP3530 Data Structures
- CEN4010 Software Engineering; spring; Prerequisites: COP3530 Data Structures and COP3703 Intro to Databases
- COT4400 Design & Analysis of Algorithms; fall; Prerequisites: COP3530 Data Structures
- COP4630 Intro to Artificial Intelligence; spring; Prerequisites: COP3530 Data Structures
- COP4610 Operating Systems; spring; Prerequisites: COP3530 Data Structures and COP4604 Systems Software
- Electives: Any 9 credits at the 3XXX or 4XXX level with the following prefixes: CAP, CDA, CEN, CIS, CNT, COP or COT