Bachelor of Arts in Computer Science
(Effective 01/01/2021)

Choose ONE course

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1920</td>
<td>Intro to Computing (1 credit)</td>
</tr>
<tr>
<td>COP 1000</td>
<td>Intro to Programming</td>
</tr>
<tr>
<td>IDC1000</td>
<td>Compt Science for Everyone</td>
</tr>
</tbody>
</table>

All courses are 3 credits, except as noted.

CS Electives (6 courses): Must take at least one course from each elective group (most electives are 3 credits). Remaining three elective courses must be taken from these elective groups.

Foundations
- COP 4554 - Algorithm Techniques (Prereq: COP 3530)
- COP 4555 - Programming Languages (Prereq: COP 3530)
- COT 3541 - Logic for CS (Prereq: COP 3337 & COT 3100)
- COT 4521 - Intro to Computational Geometry (Prereq: COP 3530)
- MAD 3305 - Graph Theory (Prereq: COP 2210, MAD 2104)
- MAD 3512 - Theory of Algorithms (Prereq: COP 3530)
- MHF 4302 - Math Logic (Prereq: MAD 3512)

Systems
- CEN 4053 - Cloud Computing (Prereq: CNT 4173 and (CDA 3102 or CDA 4101))
- CEN 4031 - Fund Blockchain Technologies (Prereq: COP 3530)
- CNT 4713 - Net Centric Computing (Prereq: COP 4338)
- COP 4520 - Intro to Parallel Computing (Prereq: COP 4338 and (CDA 3102 or CDA 4101))
- COP 4604 - Advanced UNIX Programming (Coreq: COP 4610)
- COP 4710 - Database Management (Prereq: COP 3337; Coreq: COP 3530)
- COP 4751 - Advanced Database Management (Prereq: COP 4710)
- COT 4431 - Applied Parallel Computing (Prereq: COP 3530 and CDA 3102/CDA 4101)
- CTS 4408 - Database Administration (Prereq: COP 4710)

Applications
- CAP 4104 - Human Computer Interaction (Prereq: COP 3337)
- CAP 4630 - Artificial Intelligence (Prereq: COP 3530)
- CAP 4641 - Nat Lang Processing (Prereq: COP 3530)
- CAP 4770 - Intro to Data Mining (Prereq: COP 3530, Coreq: COP 4710)
- CEN 4021 - Software Engineering II (Prereq: CEN 4010)
- CEN 4072 - Software Testing (Prereq: COP 3530)
- COP 4226 - Adv Windows Programming (Prereq: COP 3530)
- COP 4655 - Mobile App Dev (Prereq: (CPS 4104 and CEN 4010) or (CEN 3721 and COP 4814))

Prerequisites:
- ENC 3249 ENC 3213: UCC English requirements
- COT 3100, MAD 2104 & MAC 1147: MAC 1105
- COP 2210: MAC 1140 or higher level math course

A line indicates a prerequisite. The course above must be completed before the course below can be taken.

A diamond indicates a co-requisite. The course closer to the diamond may be taken at the same time as the co-requisite. The co-requisite is a prerequisite for any course that requires the course closer to the diamond.

$ Both COP 2210 and COP 2210L must be registered together with the same professor.