

Computer Science

Recommended Course Sequence for BS CS

Freshman Year

General Education Courses Science Majors Courses	COP 1500 <u>Intro to Computer Science</u> <i>(pre-req MAC 1105)</i>	STA 2023 MAC 2311
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1st Semester Sophomore Year

General Education Courses Science Majors Courses	COP 2006 <u>Intro to Programming</u> <i>(pre-req COP 1500, MAC 2311)</i>	PHY 2048C MAC 2312
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2nd Semester Sophomore Year

CDA 3200 <u>Digital Systems</u> <i>(pre-req COP 1500, PHY 2048C)</i>	COP 2001 <u>Programming Methodology</u> <i>(pre-req COP 2006, MAC 2312)</i>	PHY 2049C MAD 3107
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1st Semester Junior Year

CEN 3031 <u>Software Engineering</u> <i>(pre-req COP 2001)</i>	CDA 3104 <u>Comp Org'n/Assm Lang</u> <i>(pre-req CDA 3200, COP 2006)</i>	COP 3003 <u>OO Programming</u> <i>(pre-req COP 2001)</i>
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2nd Semester Junior Year

ISM 3212 <u>Database</u> <i>(pre-reqs COP 2006, CEN 3031)</i>	CDA 4150 <u>Computer Architecture</u> <i>(pre-reqs CDA 3104, PHY 2049C)</i>	COP 3530 <u>Data Structures</u> <i>(pre-reqs COP 3003, MAD 3107)</i>
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1st Semester Senior Year

CS Electives	CNT 4104 <u>Computer Networks</u> <i>(pre-reqs CDA 4150, COP 3003)</i>	COP 4610 <u>Operating Systems</u> <i>(pre-reqs CDA 3104, COP 3530)</i>
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2nd Semester Senior Year

CS Electives	CEN 4935 <u>Senior Software Engineering Project</u> <i>(pre-reqs CEN 3031, COP 3530)</i>	COT 3400 <u>Algorithms</u> <i>(pre-req COP 3530)</i>
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CS Electives (4) of:

- COP 2550 – Programming Systems (COP 3530)
- CAP 3611 – Comp & Neural Sys (MAC 2311/COP 2001)
- CAP 4730 – Computer Graphics (COP 3003)
- CAP 4830 – Simulation and Modeling (COP 3003)
- CDA 4170 – Data Acquisition & Control Sys. (COP 2001)
- ISM 3238 – Adv Bus Programming (COP 3003)
- COP 4908 – Independent Study
- COP 4931 – Special Topics in CS
- Other Approved Electives – *see advisor*