

Computer Science Associate in Science

Four-Semester Pathway - Academic Year 2019-2020

| Semester 1 | Requirement | Recommended | Prerequisites | Corequisites | Credits | My Plan |
|---------------------|--|---|--|-------------------------|---------|---------|
| FIGS-100 | Freshman Interest Group | | | | 1 | |
| ENGL-100 | English Composition | | ENGL-090, ENGL-095 | | 3 | |
| CSCI-110 | Principles of Computer Science | | MATH-050 | | 4 | |
| MATH-140 AND | College Algebra | MATH-050 | | | 3 | |
| MATH-146 OR | Introduction to Trigonometry | MATH-050 | MATH-140 | | 1 | |
| MATH-190 | Precalculus | Transfer Track | MATH-145 | | 3 | |
| | Computer Science Elective OR | Career Track | See course prerequisites | See course corequisites | 3 | |
| MATH-225 | Discrete Mathematics | Transfer Track | MATH-140 or higher, ENGL-090, ENGL-095 | | 3 | |
| Semester 2 | | | | | | |
| ENGL-110 | Oral Communications | | ENGL-090, ENGL-095 | | 3 | |
| CSCI-160 | Object Oriented Design and Programming | | CSCI-110 | | 4 | |
| | Social Science Elective | See list on reverse side | See course prerequisites | See course corequisites | 3 | |
| | Computer Science Elective OR | Career Track | See course prerequisites | See course corequisites | 3 | |
| | Social Science Elective | Transfer Track - See list on reverse side | See course prerequisites | See course corequisites | 3 | |
| MATH-225 OR | Discrete Mathematics | Career Track | MATH-140 or higher, ENGL-090, ENGL-095 | | 3 | |
| MATH-260 | Calculus I | Transfer Track | MATH-190 | | 4 | |
| Semester 3 | | | | | | |
| CSCI-290 | Data Structures | | CSCI-160 | | 4 | |
| COMM-201 | Technical Writing | | ENGL-100 | | 3 | |
| | Social Science Elective | See list on reverse side | See course prerequisites | See course corequisites | 3 | |
| | Science Elective with Lab | See list on reverse side | See course prerequisites | See course corequisites | 4 | |
| | Computer Science Elective OR | Career Track | See course prerequisites | See course corequisites | 3 | |
| MATH-270 | Calculus II | Transfer Track | MATH-260 | | 4 | |
| Semester 4 | | | | | | |
| ENGL-115 | Introduction to Literature | | ENGL-100 | | 3 | |
| | Computer Science Elective OR | Career Track | See course prerequisites | See course corequisites | 3 | |
| CSCI-250 | Computer Organization | Transfer Track | CSCI-160 | | 4 | |
| | Computer Science Elective OR | Career Track | See course prerequisites | See course corequisites | 3 | |
| CSCI-299 | Programming Autonomous Robots | Transfer Track | CSCI-290 | | 3 | |
| | Social Science Elective OR | Career Track | See course prerequisites | See course corequisites | 3 | |
| | Science Elective with Lab | Transfer Track - See list on reverse side | See course prerequisites | See course corequisites | 4 | |
| MATH-155 | Statistics | Career Track ONLY | MATH-030 | | 3 | |

Computer Science

General Education Requirements

| Course Code | Course Title | Prerequisites | Corequisites | Credits | Met |
|-------------|----------------------------------|------------------------------|--------------|---------|-----|
| ENGL-100 | English Composition | ENGL-090, ENGL-095 | | 3 | |
| ENGL-115 | Introduction to Literature | ENGL-100 | | 3 | |
| FIGS-100 | Freshman Interest Group Elective | | | 1 | |
| MATH-225 | Discrete Mathematics | ENGL-090, ENGL-095, MATH-140 | | 3 | |
| | Science Elective with Lab* | | | 4 | |
| ENGL-110 | Oral Communications | ENGL-090, ENGL-095 | | 3 | |
| | Social Science Elective** | | | 9 | |

Major Required Courses

| Course Code | Course Title | Prerequisites | Corequisites | Credits | Met |
|-------------|--|---------------|--------------|---------|-----|
| COMM-201 | Technical Writing/Communications | ENGL-100 | | 3 | |
| CSCI-110 | Principles of Computer Science | MATH-050 | | 4 | |
| CSCI-160 | Object Oriented Design and Programming | CSCI-110 | | 4 | |
| CSCI-290 | Data Structures | CSCI-160 | | 4 | |

Select one area of focus from the following tracks:

Transfer Track

| | | | | | |
|----------|-------------------------------|----------|--|---|--|
| MATH-190 | Precalculus | MATH-145 | | 3 | |
| MATH-260 | Calculus I | MATH-190 | | 4 | |
| MATH-270 | Calculus II | MATH-260 | | 4 | |
| CSCI-250 | Computer Organization | CSCI-160 | | 4 | |
| CSCI-299 | Programming Autonomous Robots | CSCI-290 | | 3 | |
| | Science Elective with Lab*** | | | 4 | |

*Science Elective with Lab Options: *BIOL-124, PHYS-200, or CHEM-120*

**Social Science Electives: *ANTH-105, ECON-120, ECON-125, HIST-120, HIST-125, HIST-130, HIST-135, HIST-136, POLS-100, POLS-105, POLS-110, POLS-115, POLS-180, POLS-205, POLS-212, SOCI-100, SOCI-106, SOCI-160*

***Science Elective with Lab Options: *BIOL-128, PHYS-250, or CHEM-125*

Career Track

| | | | | | |
|----------|------------------------------|----------|----------|----|--|
| MATH-140 | College Algebra | MATH-050 | | 3 | |
| MATH-146 | Introduction to Trigonometry | MATH-050 | MATH-140 | 1 | |
| MATH-155 | Statistics | MATH-030 | | 3 | |
| | Computer Science Electives | | | 15 | |

2019-2020