**SEMESTER 1**

| **COURSE DETAILS** | **CREDITS** |
| --- | --- |
| MATH 140 (GQ) - Calculus with Analytic Geometry I [Notes for: MATH 140 (GQ)](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34410) | 4 |
| Science Sequence Course (GN) [Notes for: Science Sequence Course (GN)](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34413) | 4 |
| ENGL 015 (GWS) - Rhetoric and Composition [Notes for: ENGL 015 (GWS)](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34416)  or ENGL 030 (GWS) - Honors Freshman Composition [Notes for: ENGL 030 (GWS)](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34571) | 3 |
| CMPSC 121 (GQ) - Introduction to Programming Techniques [Notes for: CMPSC 121 (GQ)](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34419) | 3 |
| First-Year Seminar | 1 |
| Total credits | 15 |

**SEMESTER 2**

| **COURSE DETAILS** | **CREDITS** |
| --- | --- |
| MATH 141 (GQ) - Calculus with Analytic Geometry II [Notes for: MATH 141 (GQ)](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34429) | 4 |
| Science Sequence Course (GN) [Notes for: Science Sequence Course (GN)](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34432) | 4 |
| CMPSC 122 - Intermediate Programming [Notes for: CMPSC 122](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34435) | 3 |
| Arts (GA)  or Humanities (GH)  or Social and Behavioral Science (GS) | 3 |
| Health and Physical Activity (GHA) | 1.5 |
| Total credits | 15.5 |

**SEMESTER 3**

| **COURSE DETAILS** | **CREDITS** |
| --- | --- |
| CMPSC 221 - Object Oriented Programming with Web-Based Applications | 3 |
| MATH 220 (GQ) - Matricies | 2 |
| Science Sequence Course (GN) [Notes for: Science Sequence Course (GN)](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34461) | 2-3 |
| Arts (GA)  or Humanities (GH)  or Social and Behavioral Science (GS) | 3 |
| CAS 100 (GWS) - Efffective Speech  [Notes for: CAS 100 (GWS)](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34469) | 3 |
| Health and Physical Activity (GHA) | 1.5 |
| Total credits | 14.5-15.5 |

**SEMESTER 4**

| **COURSE DETAILS** | **CREDITS** |
| --- | --- |
| CMPSC 360 - Discrete Mathematics for Computer Science [Notes for: CMPSC 360](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34473) | 3 |
| STAT 301 - Statistical Analysis I [Notes for: STAT 301](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#76538) | 3 |
| Science Elective | 3 |
| ENGL 202C (GWS) - Effective Writing: Technical Writing [Notes for: ENGL 202C (GWS)](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34479) | 3 |
| Arts (GA)  or Humanities (GH)  or Social and Behavioral Sciences (GS) | 3 |
| Total credits | 15 |

**SEMESTER 5**

| **COURSE DETAILS** | **CREDITS** |
| --- | --- |
| CMPSC 335 - Fundamentals of Communication Networks [Notes for: CMPSC 335](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34491) | 3 |
| CMPSC 312 - Computer Organization and Architecture [Notes for: CMPSC 312](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34494) | 3 |
| CMPSC 465 - Data Structures and Algorithms [Notes for: CMPSC 465](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34499) | 3 |
| CMPSC 431 - Database Management Systems [Notes for: CMPSC 431](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#76540) | 3 |
| Science Elective | 3 |
| Total credits | 15 |

**SEMESTER 6**

| **COURSE DETAILS** | **CREDITS** |
| --- | --- |
| CMPSC 421 - Net-centric Computing  [Notes for: CMPSC 421](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34509) | 3 |
| CMPSC 474 - Operating System and Systems Programming  [Notes for: CMPSC 474](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#76542) | 3 |
| Computing Elective | 3 |
| Supporting and Related Area | 3 |
| Science Elective | 3 |
| Total credits | 15 |

**SEMESTER 7**

| **COURSE DETAILS** | **CREDITS** |
| --- | --- |
| CMPSC 461 - Programming Language Concepts [Notes for: CMPSC 461](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34537) | 3 |
| CMPSC 484 - Computer Science Senior Project I [Notes for: CMPSC 484](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34540) | 2 |
| SWENG 411 - Software Engineering (Computing Elective) [Notes for: SWENG 411](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34543) | 3 |
| Supporting and Related Area | 3 |
| Arts (GA)  or Humanities (GH)  or Social and Behavioral Sciences (GS) | 3 |
| Science Elective | 3 |
| Total credits | 17 |

**SEMESTER 8**

| **COURSE DETAILS** | **CREDITS** |
| --- | --- |
| CMPSC 485 - Computer Science Senior Project II [Notes for: CMPSC 485](http://rap.psu.edu/computer-science-cmpbd?width=500&height=auto&inline=true#34556) | 3 |
| Computing Elective | 3 |
| Science Elective | 3 |
| Arts (GA)  or Humanities (GH)  or Social and Behavioral Sciences (GS) | 3 |
| Arts (GA)  or Humanities (GH)  or Social and Behavioral Sciences (GS) | 3 |
| Total credits | 15 |