

Options for Bachelor of Science in Computer Science

	General	Bioinformatics	Business	Computational Science	Earth & Environmental Sciences	Visualization
<i>Pursue Careers in</i>	<i>Software Engineering, all areas of Computer Science and Information Technology</i>	<i>Same career opportunities as the general program with additional preparation for careers in Pharmaceutical Industry, Forensics and BioTechnology</i>	<i>Same career opportunities as the general program with additional preparation for careers in Business Management and Applications</i>	<i>Same career opportunities as the general program with additional preparation for careers in Computer Modeling & Simulation for Scientific Applications</i>	<i>Same career opportunities as the general program with additional preparation for careers in Oil Exploration, Geospatial Surveying, Environmental Science</i>	<i>Same career opportunities as the general program with additional preparation for careers in Computer Animation, Graphics, Simulation or Scientific Visualization</i>
Computer Science Courses	31 Hours	Same as General	Same as General	Same as General	Same as General	Same as General
Computer Engineering Courses	16 Hours	Same as General	Same as General	Same as General	Same as General	Same as General
Computer Science and Computer Engineering Electives	36 Hours	8 Hours	Same as General	Same as General	36 Hours Must include Data Mining or Visualization	16 Hours of required Visualization Courses plus 20 Hours in Application Area courses in selected track specialty (see below)
Technical Communications	3 Hours	Same as General	Same as General	Same as General	Same as General	Same as General
General Education	40 Hours	Same as General	36 Hours	Same as General	Same as General	Same as General
Mathematics Statistics Courses	24 Hours	Same as General	Same as General	Same as General	Same as General	Same as General
Additional Science and Mathematics	21 Hours 3 Course Sequence in Laboratory Science Plus 2 more Science/Math Courses	See Option Requirements	Same as General	18 hours Science including 3 Course Sequence in Laboratory Science, See Option Requirements for additional requirements	3 Course Sequence in Laboratory Science See Option Requirements for additional requirements	3 Course Sequence in Laboratory Science See Option Requirements for additional requirements
General Electives	20 Hours	0	0	0	9 to 13 Hours	0
Options Requirements	N/A	72 Hours Required Bioinformatics Courses Includes; Computer Science, Chemistry, Biological Sciences	24 Hours Required Business Courses ; Macroeconomics, Microeconomics, Accounting, 8 Hours of Business Electives	12 hours in Numerical Methods I & II, Techniques and Tools of Computation; 10 Hours of Computational Science Electives	16 Hours Earth & Environmental Courses selected from the following; Geospatial Analyses, Exploration Seismology or Environmental Sciences	Additional 20 to 23 Hours Required Area Specific Courses from one of the following specialty tracks; Biomedical Engineering Industrial Engineering Mechanical Engineering Bioinformatics
Total Hours	191 Hours	194 Hours	191 Hours	190 Hours	191 Hours	191 Hours