





Software Engineering // MAJOR MAP

Bachelor of Science



Southwest Baptist
UNIVERSITY

	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
 Grow ACADEMICALLY	<p>Investigate introductory courses like CIS 1033 Foundations of Computer Science, CIS 1144 Computer Science I, CIS 1154 Computer Science II, and CIS 1163 Introduction to Cybersecurity.</p> <p>Familiarize yourself with your department by getting to know the professors and students.</p>	<p>Explore career goals with your advisor and consider a double major, adding a minor, or even an early entrance into the MBA program during your senior year.</p> <p>Continue engaging in Computing Core classes like CIS 2213 Systems Analysis and Design, CIS 3333 Algorithms and Data Structures, and CIS 3553 Software QA and Testing.</p> <p>Begin researching and applying for relevant internships.</p>	<p>Consider what internships are available and apply for your junior year internships.</p> <p>Continue engaging in Computing Core classes like CIS 3313 Advanced Systems Analysis and Design, CIS 3323 Database Management and CIS 3123 Data Science.</p> <p>Strive to be in the top 20% of your class for entrance into Delta Mu Delta Honor Society.</p>	<p>CIS 4462 Applied Software Engineering I and CIS 4472 Applied Software Engineering II will bring your Computing academic experiences together and prepare you for your desired career path upon graduation.</p> <p>Complete the required Software Engineering internship.</p>
 Pursue SERVANT LEADERSHIP	<p>Participate in student organizations and professional associations like Association for Computing Machinery (ACM), Sentrepact, and Future Business Leaders of America (FBLA).</p> <p>Each year, engage in Cyberhealth Day where you will perform security checks and remove viruses from community members' computers.</p>	<p>Take more responsibility in your extra-curricular activities. Engage in your student organization and consider a leadership role within ACM, Sentrepact, or FBLA.</p> <p>Apply to be a mentor for the Computing and Mathematics division.</p>	<p>Demonstrate servant-leadership by making new members feel welcome and pursuing project leader/officer positions in your organization.</p>	<p>Spread the word about what clubs/ organizations/events you have enjoyed and help others to get connected on campus.</p>
 Embrace OUR GLOBAL SOCIETY	<p>Visit SBU's Center for Global Connections to learn about global service opportunities.</p> <p>Participate in service opportunities with ACM, Sentrepact, and FBLA throughout the year.</p>	<p>Compete and travel with ACM, Sentrepact, or FBLA.</p> <p>Are you interested in studying abroad?</p> <p>Ask your advisor or Career Services about study abroad opportunities.</p>	<p>Compete and travel with ACM, Sentrepact, or FBLA.</p> <p>Consider taking an international trip with the SBU MBA program.</p>	<p>Assess what opportunities, locally and globally, are available upon graduation.</p>
 Plan for YOUR FUTURE	<p>Discuss your career interests with an advisor and identify your goals.</p> <p>Apply for CPP scholarships.</p>	<p>Attend the CPP career fair held each semester.</p> <p>Pursue internship opportunities by networking at career fairs held on campus.</p>	<p>Explore graduate schools if you desire to continue your education. Consider the option of continued education at SBU through the MBA program.</p>	<p>Identify and ask individuals if they will write you letters of reference/ recommendation.</p> <p>Finalize your résumé and cover letter.</p>

CAREER POSSIBILITIES

- Software Engineer
- Software Architect
- Software Tester
- QA Analyst
- Security Software Developer
- Full-stack Developer
- Data Analyst
- Front-end Developer
- Back-end Developer
- Data Engineer
- Web Developer
- Mobile Apps Developer
- Database Administrator
- Computer and Information Systems Manager
- Source Code Auditor