Computer Science

NDSU NORTH DAKOTA STATE UNIVERSITY

MAJOR MAP

B.A. or B.S.

Curriculum Guide

	1ST YEAR	2ND YEAR	3RD YEAR	4TH OR FINAL YEAR
NAVIGATE COURSEWORK	CSCI 189; Math; beginning programming language; English; Speech; Humanities/Fine Art and Social/Behavioral Science general education courses	Software Development coursework; Math; laboratory science; Continue Humanities/Fine Art and Social/Behavioral Science general education courses	Database; Organization & Architecture; Probability & Statistics sequence; begin CSCI electives; Upper division writing	Ethics/Social Responsibility; Operating Systems; Parallel Computation; Capstone Seminar; finish CSCI elective and remaining general education coursework.
DEVELOP SKILLS THROUGH EXPERIENCE	Explore connections between careers and majors. Explore student organizations (i.e. ACM: Association for Computing Machinery) to join, aligned with career direction.	Consider an on- or off-campus job to expand experience. Visit the Career & Advising Center; Learn professional etiquette and how to write a proper resume, cover letter, and thank you note.	Apply for a summer job or internship between your 3rd and 4th year; or Stay during the summer as an assistant to a faculty member or apply for student research opportunities	Investigate requirements for full-time jobs or other opportunities related to careers of interest. Assess experiences you are lacking and fill in gaps with volunteering, clubs, internships.
SEEK OUT CONNECTIONS	Build your network! Join a targeted professional association/club/organization	Begin networking with professionals in targeted field. Consider volunteering with a community organization related to your major.	Do some targeted networking with alumni working in careers of interest. Attend department-sponsored professional presentations. Consider a leadership position in a professional association/club/organization	Connect with people who can help you materialize post-graduation plan. Debrief with advisors
UNDERSTAND BROADER PERSPECTIVES	Explore self, including personality, strengths, interests, and skills.	Consider if study abroad fits into your education. If so, submit an application for an abroad opportunity. Volunteer with a community organization that helps others in need	Study or intern abroad, if relevant. Build your intercultural competence by getting involved with other cultures or by improving your language skills.	Prepare for work or studies in a foreign country and research possible visa regulations. Pursue position types that fit your career goals and current background
GO! BUILD YOUR FUTURE	Struggling with career or program decisions? Go to orientation sessions, visit with the Career & Advising Center, and attend Career Fairs during the year.	Create a LinkedIn profile, build out LinkedIn connections, develop 10-15 second elevator pitch on who you are, conduct internship/job search, develop a list of references.	Begin to streamline your career focus area. Research education and experience requirements for careers of interest. Consider 4+1 BS/MS program. If needed, prepare to take a grad school test	Solidify post-graduation plan and apply for jobs, graduate school, or additional training. Get help from the Career & Advising Center with job searching, resumes, letters, interviews, grad school apps, etc.

CONSIDER A SUMMER JOB OR INTERNSHIP

Where could I go after graduation?

- Artificial Intelligence
- Computer Programmer
- Data Scientist
- Database Administrator
- Hardware Engineer
- High School Educator
- IT Architect
- Information Researcher
- Network Administrator
- Software Developer
- Software Engineer Systems
- Manager Systems Analyst
- Security Analyst Technical
- Support Web Developer

*Some careers may require additional training

Last Updated: 06/24/2019