



Collaborate with an advisor to pinpoint the foundational competencies, major, and career specific skills you'll need to reach your goals!

Self-reflection questions to prepare for this activity:

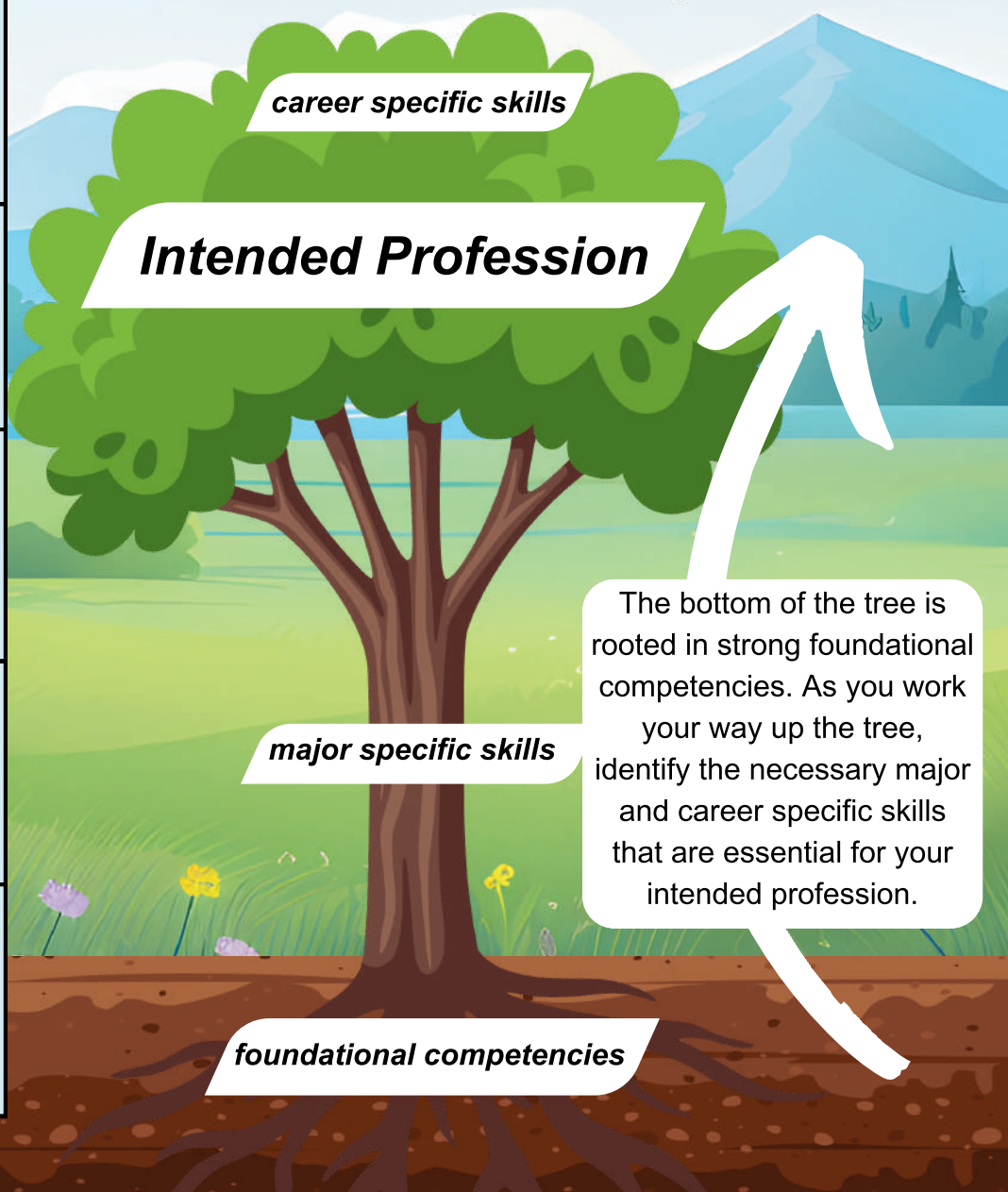
In considering your talents and academic interests, what coursework do you find exciting?

In what ways do you hope to pursue an academic and career direction that will give you a sense of purpose?

What kinds of research, internships, and/or work-based learning opportunities will be helpful for your career plan?

After further exploration into the world of work, what STEM occupations align with your talents, interests, and values?

Have you started to develop academic and career goals? Are you considering graduate school? What other goals are you thinking about?



CSM Student Success Center - Career Tree

Contact ACES! They can help build your resume, cover letters, and interview skills

<https://www.umb.edu/aces>

Advanced Job
Related Skills



Fill in your desired career in the middle yellow tab. Then, use the QR code on the left to search for that position on the Bureau of Labor Statistics website. Once you find the career, click on the “What They Do” tab and use the skills listed there to fill in the tabs around the job title. Complete multiple trees if you are interested in multiple different career paths!

Your professors have worked or done research in the areas you’re interested in! Talk with your faculty advisor to explore your research and career goals!

Discipline
Specific
Skills



The courses within your chosen major will help you develop discipline-specific skills, which can be further developed by shadowing, internships, and entry level jobs. The QR code on the left will take you to the ‘*CareerOneStop*’ where you can select various professions and see the associated skills. What skills will you need to develop to attain your desired profession?

NACE
Foundational
Competencies



Employers are looking for students who are career-ready. Learn about these competencies from NACE (National Association of Colleges and Employers) and cultivate these skills in your general education courses. What other foundational competencies do you want to develop?



Example Skills Word Bank

Career Specific Skills	Scientific Reports, Experimentation, Applied Research, Technology Implementation, Programming, Software Development, Cybersecurity, CAD & Simulation Tools, Mechanical & Structural Analysis, Circuit Design
Major Specific Skills	Scientific Writing, Data Analysis, Lab Protocols, Complex Problem Solving, Data Structures and Algorithms, Networks, Robotics, Advanced Mathematics, Microscopy, Designing Systems, Machine Learning
Foundational Competencies	Career & Self-Development, Communications, Critical Thinking, Equity & inclusion, Leadership, Professionalism, Teamwork, Technology, Persistence, Exploration, Adaptability, Cultural Fluency, Digital Literacy, Time Management

What will happen when you discover and pursue a STEM career that is filled with a strong sense of purpose? You will:

- be happier
- make an optimal contribution to your intended profession
- flourish inside and outside of work
- set higher standards for yourself
- forge stronger social connections
- seek opportunities to solve some of the world's most challenging problems
- have more courage, ambition, and focus to make your dreams a reality
- outgrow the need for a comparative advantage in achievement, status, or popularity

Visit our purposeful pathways website for additional guidance and insight!



Contact the College of Science and Math Student Success Center for all your academic advising needs!

studentsuccess@umb.edu
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