

Connect the things learned in class to a few of these for key highlights of the competencies gained. Then, next to each Student Learning Outcome (SLO), list which NACE Competencies that SLO targets.

Career Readiness Skills—what does this mean? In every class you take at NAU, you learn professional skills that can support your future career. There are a number of ways that this course can help you meet and excel at your job goals and life desires. Below is a list of in-demand skills from National Association of Colleges and Employers ([NACE](#)) you could earn and practice in this class:

1. **Career & Self-Development:** Proactively develop oneself and one's career through continual personal and professional learning, awareness of one's strengths and weaknesses, navigation of career opportunities, and networking to build relationships within and without one's organization.
2. **Communication:** Clearly and effectively exchange information, ideas, facts, and perspectives with persons inside and outside of an organization.
3. **Critical Thinking:** Identify and respond to needs based upon an understanding of situational context and logical analysis of relevant information.
4. **Equity & Inclusion:** Demonstrate the awareness, attitude, knowledge, and skills required to equitably engage and include people from different local and global cultures. Engage in anti-racist practices that actively challenge the systems, structures, and policies of racism.
5. **Leadership:** Recognize and capitalize on personal and team strengths to achieve organizational goals.
6. **Professionalism:** Knowing work environments differ greatly, understand and demonstrate effective work habits, and act in the interest of the larger community and workplace.
7. **Teamwork:** Build and maintain collaborative relationships to work effectively toward common goals, while appreciating diverse viewpoints and shared responsibilities.
8. **Technology:** Understand and leverage technologies ethically to enhance efficiencies, complete tasks, and accomplish goals.

Example Course #1

Student Learning Outcomes

By the end of the semester, you should be able to:

- (a) Apply concepts from physics, astronomy, chemistry, and geology to solve problems in planetary science. (*NACE Competencies: Communication, Critical Thinking*)
- (b) Describe the structure of the solar system and the major characteristics of terrestrial planets, giant planets, dwarf planets, and small solar system bodies. (*NACE Competencies: Critical Thinking*)
- (c) Describe how planetary interiors, surfaces, atmospheres, and/or magnetospheres evolve and interact to produce the features seen today on solar system bodies. (*NACE Competencies: Critical Thinking*)
- (d) Describe the techniques utilized to detect extrasolar planetary systems. (*NACE Competencies: Communication, Critical Thinking*)
- (e) Understand enough planetary science to be able to comprehensively read professional papers in journals such as *Icarus*, *Journal of Geophysical Research—Planets*, *Science*, and *Nature*. (*NACE Competencies: Career & Self-Development, Communication, Critical Thinking, Teamwork*)

Example Course #2

At the end of this course, you should be able to:

- SLO1.** Explain the key concepts of stellar properties, atmospheres, and interiors (*NACE Competencies: Critical Thinking*);
- SLO2.** Derive and/or apply fundamental equations that describe stellar phenomenon (*NACE Competencies: Critical Thinking*);
- SLO3.** Write, or use, programs to explore and illustrate some of the key diagrams, and interpret the output to demonstrate physical principles and phenomenon (*NACE Competencies: Technology*);
- SLO4.** Explore and analyze real/theoretical stellar data, synthesize with course content, and derive scientific results or conclusions, individually or in a small group (*NACE Competencies: Communication, Critical Thinking, Leadership, Professionalism, Teamwork*);
- SLO5.** Create simple Concept Maps or diagrams to express, or relate to, complicated physical properties of stars, as a practice of better and effective science communication, individually or in a small group (*NACE Competencies: Communication, Technology*);
- SLO6.** Practice a professional and intelligent conversation, with confidence and sincerity, to an invited guest * speaker. (*NACE Competencies: Career & Self-Development, Communication, Professionalism*)