

DEPARTMENT OF SCIENCE

COURSE OUTLINE – Fall 2025

EG1000 (A2): Success in Engineering – 1.1 (0.75–0.75–0) 22.5 Hours for 15 Weeks

Northwestern Polytechnic acknowledges that our campuses are located on Treaty 8 territory, the ancestral and present-day home to many diverse First Nations, Metis, and Inuit people. We are grateful to work, live and learn on the traditional territory of Duncan's First Nation, Horse Lake First Nation and Sturgeon Lake Cree Nation, who are the original caretakers of this land.

We acknowledge the history of this land and we are thankful for the opportunity to walk together in friendship, where we will encourage and promote positive change for present and future generations.

INSTRUCTOR: Braden Kelly
OFFICE: J218
OFFICE HOURS: TBA

PHONE: 789-539-2963
E-MAIL: bkelly@nwpolytech.ca

CALENDAR DESCRIPTION:

An introduction to the Engineering Faculty, the engineering profession, the skills required for academic success, and the fundamentals of leadership: study and life skills; time management and goal setting; interpersonal skills; career planning; engineering and society including elements of ethics, equity, concepts of sustainable development, environmental stewardship, and public safety.

PREREQUISITE(S):

Restricted to Engineering students.

REQUIRED MATERIALS:

No required resources.

Introduction to Professional Engineering in Canada (Any Version), Fraser, Roydon A; Andrews, Gordon C.; Aplevich, J. Dwight; et al., Pearson Canada (4th edition is 2014, there is newer and older). Latest edition has Carolyn MacGregor as lead author. [Recommended but not required textbook].

DELIVERY MODE(S):

Lecture: Monday 2:30 – 3:20 PM, room J204

Seminar: Friday 11:30 – 12:20 PM, room J204

LEARNING OUTCOMES:

By the end of this course students should be able to:

1. Describe the responsibilities of an engineer, including environmental stewardship, workplace safety, professional development, and obligations toward society
2. Apply foundational study skills, time management, goal setting, and assess the effectiveness of their strategies
3. Calculate their GPA and understand second-year admission process to UofA and the requirement for discipline selection.
4. Be aware of the APEGA Code of Ethics
5. Describe the knowledge base developed through engineering education in relation to personal and career success.
6. Learn and apply communication skills through a presentation

TRANSFERABILITY:

Please consult the Alberta Transfer Guide for more information. You may check the transferability of this course at the Alberta Transfer Guide main page

<http://www.transferalberta.alberta.ca>.

**** For courses with alpha (letter) grading, a grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability.**

EVALUATIONS:

Attendance	> 90% of classes
Individual presentation	20 points
Class participation during guest speaker presentations	20 points
Engineering literature search for Discipline Selection	20 points
Resume	20 points
Final Exam (Combined)	20 points

Evaluation types and weighting may be changed at the discretion of the instructor. Students must attend at least 90% of lectures and seminars to pass this course.

Alpha Grade	4-Point Equivalence	Percentage Conversion (unless otherwise specified in the Course Outline)	Descriptor
CR	N/A	50-100	Credit
NC	N/A	0-49	No Credit

COURSE SCHEDULE/TENTATIVE TIMELINE:

September 3, 2025 – December 11, 2025

STUDENT RESPONSIBILITIES:

Attendance is mandatory and assignments must be submitted on time. There will be many guest speakers who are Professional Engineers from a spectrum of disciplines. Students are expected to interact politely and professionally with them.

STATEMENT ON ACADEMIC MISCONDUCT:

Academic Misconduct will not be tolerated. For a more precise definition of academic misconduct and its consequences, refer to the Student Rights and Responsibilities policy available <https://www.nwpolytech.ca/about/polytechnic-leadership/policies-directory>.

**Note: all Academic and Administrative policies are available on the same page.

Additional Information:

Engineers Rule The World (ERTW)