

COURSE NAME: GED150 Introduction to Astronomy

Credit Value: 3
Total Course Hours: 42
Prerequisite Course(s): None
Corequisite Course(s): None

COURSE DESCRIPTION

This course covers a broad range of astronomical topics and our scientific understanding of the planets, stars, and the universe as a whole. Topics include earth-based observations, the structure of our solar system, and the origins of the cosmos. No previous science experience is required.

PLAR INFORMATION

This course is eligible for Prior Learning Assessment and Recognition. Students are advised to discuss options with their program coordinator.

COURSE LEARNING OUTCOMES

Upon completion of this course, the student will have reliably demonstrated the ability to:

- 1.0 Investigate, interpret, and share astronomical information from a variety of online sources.
 - 1.1 Identify reliable sources of astronomical information from the web.
 - 1.2 Explore terms and key historical figures in astronomy.
 - 1.3 Create reports based on a variety of sources of astronomical knowledge.
 - 1.4 Discuss current astronomical advances and discoveries.
- 2.0 Describe astronomical cycles and how they affect our view of the night sky.
 - 2.1 Apply scientific reasoning to describe the observed characteristics and differences between various celestial objects.
 - 2.2 Explain recurring cycles from earth-based observations.
 - 2.3 Recognize common astronomical misconceptions and explain correct scientific theories in response.
- 3.0 Identify the main components and mechanics of our Solar System
 - 3.1 Identify astronomical observations and major discoveries that have played a significant role in our current understanding of the solar system.
 - 3.2 Compare and contrast basic characteristics of the planets and other bodies in our celestial neighbourhood.
 - 3.3 Describe the origins of major and minor solar system bodies in the evolution of our solar system.
- 4.0 Identify the main components and mechanics of the Universe.
 - 4.1 Compare and contrast basic characteristics of large structure elements of the universe; such as massive stars, galaxies and nebulae.
 - 4.2 Explain fundamental concepts of scale and physics as they relate to the universe.
 - 4.3 Recount key historical moments and the predicted future timeline in the evolution of the universe.
 - 4.4 Describe recent astronomical theories and discoveries as they relate to lesser known objects in space; such as exoplanets and black holes.
- 5.0 Demonstrate an awareness of how to acknowledge the words and ideas of others.
 - 5.1 Adhere to the principles of academic integrity with respect to the use of words, concepts, patterns, images, or sounds from any source.
 - 5.2 Submit work that is free of plagiarism as

defined by Canadore College's Academic Integrity Policy.

5.3 Apply ethical considerations in dealing with all information sources.

5.4 Represent work attributable to others according to convention.

GENERAL EDUCATION

In some programs of study this course meets the General Education requirement under the Science and Technology theme.

ESSENTIAL EMPLOYABILITY SKILLS OUTCOMES

This course contributes to the following Ministry of Colleges and Universities approved essential employability skills (EES) outcomes:

1. Communicate clearly, concisely, and correctly in the written, spoken, and visual form that fulfils the purpose and meets the needs of the audience.
2. Respond to written, spoken, or visual messages in a manner that ensures effective communication
4. Apply a systematic approach to solve problems
5. Use a variety of thinking skills to anticipate and solve problems
6. Locate, select, organize, and document information using appropriate technology and information systems.
7. Analyse, evaluate, and apply relevant information from a variety of sources.
8. Show respect for the diverse opinions, values, belief systems, and contributions of others
10. Manage the use of time and other resources to complete projects.
11. Take responsibility for one's own actions, decisions, and consequences.

EXTERNAL COURSE ACCREDITATIONS AND CONDITIONS

COURSE EVALUATION

Quizzes - 45%

Assignments - 20%

Discussions - 15%

Final Assessment - 20%

PROGRAM SPECIFIC GRADING

Per College Grading System

GRADING SYSTEM

A+:	90-100%	B+:	77-79%	C+:	65-69%	D:	50-54%	S - Satisfactory
A:	85-89%	B:	73-76%	C:	60-64%	F:	0-49%	I - Incomplete
A-:	80-84%	B-:	70-72%	D+:	55-59%			F- Repeat Course, included in GPA
								FS- Failure Supplemental
								FR- Repeat course, excluded from GPA

*For a complete chart of grades and descriptions, please see the Grading Policy.

LEARNING RESOURCES

Other Resources:

All resources are provided in the course.

Resources listed on the course outline support the achievement of learning outcomes, and may be used throughout the course to varying degrees depending on the instructor's teaching methodology and the nature of the resource.

LEARNING ACTIVITIES

Complete reading and writing activities.

Review online text and videos.

Conduct research.

Participate in discussion forums.

DELIVERY MODE

This course may be delivered, in whole or in part, in a number of modalities, including in class, online, hybrid, in a synchronous or asynchronous manner or a combination thereof, as per accreditation and/or regulatory standards where appropriate.

ACADEMIC POLICIES

Canadore College is committed to the highest standards of academic integrity, and expects students to adhere to these standards as part of the learning process in all environments. The College's Academic Integrity policy seeks to ensure that all students understand their rights and responsibilities in upholding academic integrity and that students receive an accurate and fair assessment of their work. Please review the Academic Integrity policy (A-18) and other academic policies found on our website:

<https://www.canadorecollege.ca/about/policies>.

COLLEGE POLICIES

- Protecting human rights in support of a respectful college community

For college policies please see: <http://www.canadorecollege.ca/about-us/college-policies>.

STUDENT SUCCESS SERVICES - Your Success Matters!

Student Success Services provides student-focused services to facilitate students' success in their studies. Staff provide support by reducing and/or removing educational-related barriers through individualized accommodations and supports to students with disabilities.

Please visit our webpage to learn more: <https://www.canadorecollege.ca/support/student-success-services> or look for our events on social media.

To connect with Student Success Services email studentsuccessnow@canadorecollege.ca or call 705.474.7600 ext 5205.

FIRST PEOPLES' CENTRE:

A culturally safe environment offering CONFIDENTIAL student focused services, drop in or make an appointment to access:

- One on one counselling
- Elder in residence program
- Peer tutoring
- Peer mentorship
- Lunch & learn workshops on study skills, self-care, life skills
- Learning Resource Centre

Drop by our offices at C254 College Drive, E101 Commerce Court or call 705 474 7600 Ext. 5961 College Drive / 5647 Commerce Court.

<https://www.canadorecollege.ca/experience/indigenous-student-experience>

WAIVER OF RESPONSIBILITY

Every attempt is made to ensure the accuracy of this information as of the date of publication. The college reserves the right to modify, change, add, or delete content.

HISTORICAL COURSE OUTLINES

Students use course outlines to support their learning. Students are responsible for retaining course outlines for future use in applications for transfer of credit to other educational institutions.

