The purpose of the syllabus is to tell you how the course is organized, what the expectations are, and how you will be graded. In addition, there is important information about how the college will operate during severe weather and how the college will communicate with you. The syllabus is not a contract. Instead, it is meant to help you succeed in this course. If any of the content changes during the semester, you will be notified.

**Course information:**
- **Course Title:** ASTR 1010 – Solar System Astronomy
- **Credits:** 4
- **Class Hours:** 3 class hours; 3 lab hours
- **Course mode:** Hybrid

**Course Description:**
ASTR-1010 is an introductory course in astronomy that focuses on the study of our solar system. Topics include: the history of astronomy, astronomical coordinates, Newton’s laws, gravitation, properties of light, radiation, spectroscopy, types of telescopes and their uses, the moon, eclipses, the sun and the planets in our solar system, exoplanets, asteroids, comets, and other interplanetary objects.

We will be covering the first 16 chapters of your textbook (see next section for textbook information). I will try my best to make the hybrid teaching interesting, enhancing them with experiments, quizzes, discussions, and hands-on activities.

**Prerequisites:** Level 2 Placement in Math and Reading II.

**Instructor Information:**
- **Name:**
- **Email:**
- **Office Phone :**
- **Office Location**
- **Office Hours:**
- **Instructor Zoom Room link:**

**Required Textbook(s) & Other Materials:**
**Digital Course Materials:** This course contains Digital Course Materials. You pay less for your DCM course materials and have easy access through D2L throughout the semester. When you registered for this course, the charge for these materials appeared on your account. If you decide you do not want to purchase the course materials embedded in NS Online, you can opt out of the program **until the end of the second week of classes.** If you opt out, you will be responsible for purchasing the required course materials on your own. For more information, please visit [DCM Information website](#).

**Supplies:** Power point

**Free software:** Stellarium ([www.stellarium.org](http://www.stellarium.org)). Already installed on every campus computer (including the computers in the library). I strongly recommend that you install it on your personal computer (preferably a laptop you can use for class).

**Calculator:** A basic scientific calculator is required during the first two thirds of the semester. You will need it during quizzes and tests.

Once you have registered for your courses, you should make sure you have the correct textbook and materials for each course. Before courses begin, you can do this by looking up your courses on the bookstore’s website ([https://www.bkstr.com/nsccstore/shop/textbooks-and-course-materials](https://www.bkstr.com/nsccstore/shop/textbooks-and-course-materials)) Using your A# or by entering your course information. If you are registered with the Access Center and need an alternate format for the textbook and other course materials, please contact the Access Center at 615-353-3721, 615-353-3741, or accesscenter@nscc.edu

**Honors Option:** Honors credit is available in some classes. If you are interested in participating in the Honors Program, please see your instructor within the first four weeks of class.

**Course Outcomes:** At the end of the semester, this is what you should know and/or be able to do:

- Discuss the history of astronomy and its relationship to modern science.
- Explain how electromagnetic radiation and stellar spectra carry information from the stars.
- Illustrate how the tools of astronomy, including telescopes, photometers, and spectrographs, are used.
- Compare and contrast the properties of the major planets, both terrestrial and Jovian.
- Explain the properties of the terrestrial and Jovian planets of our solar system, and their natural satellites.
- Distinguish the properties of solar system debris, including asteroids, dwarf planets, and comets.
- Examine the formation of our Solar System and compare it to other planetary systems.
- Discuss the properties of our star, the Sun.

**Topics to Be Covered:**
- Foundations of Astronomy
- Terrestrial Planets: Mercury, Venus,
Course Assessments:

The following performance assessments will be used to demonstrate students’ understanding, knowledge, and skills: Homework, Quizzes, Labs, and Tests. Your grade in this course will be calculated according to the following course components and assessments:

<table>
<thead>
<tr>
<th>Percentage weight</th>
<th>Assessment Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>15%</td>
<td>Homework</td>
</tr>
<tr>
<td>15%</td>
<td>Quizzes (I will drop your lowest grade)</td>
</tr>
<tr>
<td>20%</td>
<td>Lab reports (I will drop your lowest grade)</td>
</tr>
<tr>
<td>10%</td>
<td>10 Discussions</td>
</tr>
<tr>
<td>40%</td>
<td>3 Tests (Includes Non-comprehensive Final Exam)</td>
</tr>
</tbody>
</table>

Grading Policy and Description of Course Components

Homework (15 % of total grade)

It is the student’s responsibility to complete assigned homework on time. I will grade homework based on the correctness of the final answer but please show your detailed work. Submit your homework in D2L Dropbox by due dates. You will get feedback on homework within a week of the due date.

Quizzes (15% of total grade)

The online quizzes will be given after completion of the chapter(s), and you will have to submit them within the allotted time. The amount of time provided by your instructor will depend on the complexity of the quiz. The quiz will be auto graded in the D2L course shell, and you will be able to see your score immediately after submission of the quiz. Quiz questions are typically based on class lectures and evaluate your follow-up of the class.

Lab Reports (20% of total grade)

Experimental activities (labs) on the topics of classical mechanics, heat, and temperature will be integrated into the lectures. We will have 12 labs. Each student should prepare a lab report based on his/her data and submit it to me via the D2L course Dropbox. The lab report will be graded out of 10. Your lab report should include complete and correct data, all the questions answered correctly, and a reasonable conclusion.

Discussions (10%)
There will be 10 discussions in this course. You are expected to respond to each discussion question or prompt on Thursday and respond to at least 1 peer by Monday.

Tests and Final Exam (40% of total grade)

There will be a total of three tests during the semester, and this includes a non-comprehensive final examination. Equally weighted, these three tests make up 40% of your grade. The level of difficulty of the questions in the tests is similar to the exercises assigned as homework. If you feel that a test was graded incorrectly, I’ll be happy to take another look.

FA

If you stop attending class or if you are in an online class and stop submitting assignments, but do not turn in a withdrawal form by the deadline, you are still enrolled in the class. You will be given a grade of FA, which means you have failed due to not attending class and not completing your assignments. Please refer to the current academic calendar available on the Nashville State website, looking for the date that indicates it is the “Last Day to Earn F for Attendance (FA).” If you stop attending your course after this date, you will receive an F.

Students with an F average whose last date of attendance is before $10/28/2022$ will receive an FA; students with an F average, whose last day of attendance is on or after $10/28/2022$ will receive an F.

FN

An FN is awarded if you have never attended your course or done any of the work in an online course.

W - The last day to withdraw from the course with a W is $10/28/2022$.

Grading Scale:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90-100</td>
</tr>
<tr>
<td>B</td>
<td>80-90</td>
</tr>
<tr>
<td>C</td>
<td>70-80</td>
</tr>
<tr>
<td>D</td>
<td>60-70</td>
</tr>
<tr>
<td>F</td>
<td>&lt;60</td>
</tr>
</tbody>
</table>

Late Work Policy & Make-up Procedures for Missed Assignments and Work:

Timely submission of assignments, quizzes, discussions, labs, and tests is the best practice in this course to maximize your grade. The late homework assignment and discussions are unacceptable in this course. I will accept late quizzes, and labs within a week after the due dates with a 10% decrease in grade. Tests will not be accepted after the due date, but if a test is missed due to illness or situations beyond your control, there will be a makeup test provided the student provides written documentation.

Instructor’s Policy

The attendance policy for this course: *Please attend each lab class session to understand and succeed in this course. The instructor will not be responsible to repeat or make up any course work/assignments that are missed due to the student’s absence.*
For financial aid purposes, attendance is measured by participation in the course. Instructors can determine your level of participation in several ways. Some of those ways are:

- continued attendance
- participation in on-ground or virtual class sessions
- participating in D2L as prompted
- responding to an instructor’s email
- posting to a discussion board
- completing and submitting assignments

Technology Statement

- All classes at the College are web enhanced. "Web-enhanced" means that components of the course, such as assignments and online discussions, may be located online in the class D2L/NS Online course shell and used in the course, even if the course meets in a classroom on the ground.
- You must have access to a computer and an internet connection to complete assignments, engage in online discussions and access various course materials through D2L/NS Online course shells.
- You may also be required to use free video conferencing platforms (examples: Zoom, Teams, etc.) for course sessions and meetings.
- You will be responsible for the appropriate dress while on video. This means that you are expected to dress as if you were in a classroom.
- You will be responsible for a distraction-free environment while on video. This means that the professor and others in the course should not be able to hear noise in your homes, such as cell phones, TVs, or barking dogs. The best way to do this is to keep yourself on "mute" until you need to speak.
- You will be responsible for making sure your background is neutral. Keep in mind that students and professors come from all around the world, and you are all a part of our community. Therefore, please avoid having images in your background that may be offensive to your classmates.
- Certain publisher materials, such as textbook figures, may not work on cellphones and may require a laptop or a tablet.
- If you have questions or concerns regarding access to a computer or internet resources, please contact your instructor. Additional information is available on this website: https://www.nscc.edu/current-students/student-online-resources/access-to-internet-and-technology.

Computer Labs

Computers are available for all Nashville State students to use at each campus during open hours. Open computer lab availability may vary from campus to campus.

You should check the NSCC website for current hours of operation.
D2L/NS Online and myNSCC

It is your responsibility to check your email in both D2L/NS Online course shells and your @my.nscc.edu (student email) regularly. These are the official communication channels between the college and you. You are responsible for the information communicated through these email channels. D2L/NS Online emails contain specific course information and @my.nscc.edu emails contain important information from college offices, such as Financial Aid.

ADA Compliance Statement

If you need accommodations due to a disability, please do not hesitate to reach out to our Access Center. Disabilities for which you can receive accommodations include documented physical, emotional, and/or learning conditions. Nashville State is committed to supporting your success, and we encourage you to get assistance if needed. If you require accommodations for any courses in which you are enrolled, contact the Access Center at 615.353.3741 or 615.353.3721, or e-mail accesscenter@nscc.edu.

Classroom Misconduct

Disruptive conduct is not allowed in the classroom. Disruptive conduct is any behavior that prevents students from learning and interferes with the ability of the instructor to teach. This may change from course to course; therefore, your instructors will give you guidance on what qualifies as "disruptive conduct" in their courses. Please review the Nashville State Student Code of Conduct policy. Please be aware that children are not allowed in class or to be left unattended on campus.

Academic Misconduct

You have started this academic journey to prepare for a future career. Because of this, it is important that you learn the materials being presented in your courses. For this reason, cheating, in any form, robs you of your opportunity to learn and master the material that will enable you to succeed in that future career. Nashville State has a clear Academic Misconduct Policy that you are expected to follow. In addition, your instructors will clarify what Academic Misconduct looks like and the consequences for violations in each course that you take. The instructor has the authority to assign an “F” or a “zero” for such violations or for the semester grade.

- The first instance of academic dishonesty will lead to a score of zero on the test/assignment involved and will be referred to the Dean of Student Affairs.
- ANY FURTHER INSTANCE OF ACADEMIC DISHONESTY WILL LEAD TO A GRADE OF ‘F’ FOR THE COURSE.

Academic Early Alert System

If you are not doing well in your course, your instructor may send you an Early Alert through your @my.nscc.edu email. This email will go to your academic advisor and Student Success advisor, as well. If you get an Early Alert, contact your instructor immediately. Instructors send these when they want to help you figure out how to get extra support to pass the course. An Early Alert does not mean that you have already failed the course. Rather, it means you are in danger of failing the course if you do not change your learning strategy. Please use an Early Alert to your advantage and as an opportunity to improve your grade.
RAVE Emergency Alert System

You can log in to this free alert system to receive text messages about emergencies related to NSCC campuses: https://www.getrave.com/login/nscc. The instructions for this are listed below.

- Your RAVE Username is your NSCC email address.
- If you've never received an email from RAVE with your password, or if you need to reset your password, select “Forgot your password?” and a new password will be emailed to you.
- Should the RAVE system indicate “user not found”, select Register and create your own RAVE account.

Student Wellness

Your well-being is important to us. With this in mind, the college has several resources available to provide support when needed:

- Free tutoring: https://www.nscc.edu/current-students/on-campus-resources/learning-center-and-tutoring
- NSCC email, scheduling, online courses, textbooks, tech check out and support, computer labs on campuses, academic advising, financial advising, COVID-19 information and procedures on campuses: https://www.nscc.edu/current-students/student-online-resources
- Services that help with bus passes, food, childcare, textbooks, housing, financial counseling, personal counseling, suicide prevention, health insurance: https://www.nscc.edu/current-students/on-campus-resources/student-support-services

Equity Statement

We are taking steps to become more aware of the many different needs of students. Faculty, staff, and administrators are committed to helping students find ways to meet their needs so that ALL students can reach their goals. Please ask for things you need.

Inclement Weather & Campus Closings

You get notices about campus closings in these places: text messages from RAVE and www.nscc.edu. Even when campuses are closed, you are still responsible for completing all assigned work. Check D2L/NS Online for a message from your instructor so you do not miss important assignments and due dates, which may change due to the campus closure.

Class Cancellation Policy

Our instructors post messages about canceling classes in the D2L/NSOnline course shells and/or on the classroom door on campus. These messages can be found in the News and Content section or the Email tab in the online shell. Please check these to be sure that you take advantage of opportunities for learning and points toward your grade.