Course Name: Solar System Astronomy
Course Number: PH 205
Credits: 4
Instructor name: Dr. Jaehyon Rhee (Jay)
Instructor email: rheeja@onid.orst.edu

Course Description
Introduction to the Solar System. Topics to be covered include the history, laws, and tools of astronomy, and the composition, motion, and origin of the Sun, planets, moons, asteroids, and comets. An accompanying laboratory is used for demonstrations, experiments, and projects, as well as for outdoor observations. This course (PH 205) is directed not only to physical science majors and engineering students but also to any students who want to know more about the Solar System and to progress beyond introductory descriptive astronomy (PH 104). PH 205 is one of the three courses in the astronomy sequence (PH 205, 206, & 207). These courses are standalone, so students can take any courses in the sequence in any order.

Prerequisites/Corequisites
There are not separate pre- or co-requisites. However, students are expected to have a working knowledge of basic algebra, logarithms, and scientific notation.

Baccalaureate Core
Successful completion of this course partially fulfills OSU's Baccalaureate Core course requirements in the Perspectives category under Physical Science.

Learning Resources

Lab Resources: To be announced

Note to prospective students: Please check with the OSU Bookstore for up-to-date information for the term you enroll (http://osubeaverstore.com/ or 800-595-0357). If you purchase course materials from other sources, be very careful to obtain the correct ISBN.

Blackboard
This course will be delivered via Blackboard where you will interact with your classmates and with your instructor. Within the course Blackboard site you will access the learning materials, such as the syllabus, class discussions, assignments, projects, and quizzes. To preview how an online course works, visit the Ecampus Course Demo. For technical assistance, please visit Ecampus Technical Help.
Communication
Please post all course-related questions and suggestions in the General Discussion Forum so that the whole class may benefit from our conversation. Please email your instructor for matters of a personal nature. The instructor will reply to course-related questions and email within two business days.

Measurable Student Learning Outcomes
PH 205 is a Baccalaureate Core course in the Perspectives–Biological and Physical Sciences category.
Students taking a course in this category will:
1. Recognize and apply concepts and theories of basic physical or biological sciences.
2. Apply scientific methodology and demonstrate the ability to draw conclusions based on observation, analysis, and synthesis.
3. Demonstrate connections with other subject areas.
The first item will be measured through exams and homework assignments, and the second and third items will be evaluated via labs, exams, and homework assignments.

Specifically, students taking PH 205 will:
1. Recognize, explain, and apply concepts and theories of Solar System astronomy.
2. Apply scientific methodology employed in the field of Solar System astronomy.
3. Demonstrate the ability to draw conclusions based on observation, analysis, interpretation, comparison, and synthesis.
4. Demonstrate connections with physics, chemistry, biology, optics, space sciences, electrical engineering, mechanical engineering, computer sciences, and big data sciences.
The first item will be measured primarily through exams and homework assignments, the second and fourth items via labs, exams, and homework assignments, and the third item thru labs.

Evaluation of Student Performance
Your course grade is determined entirely from the total number of points accumulated. The following provides evaluation components and maximum possible scores.

- Midterm Exam 1: 100 points
- Midterm Exam 2: 100 points
- Final Exam: 200 points
- Homework: 100 points
- Lab: 150 points
- Total: 650 points

Course Content
0. Introduction
1. A tour of the solar system
2. The internal structure of the terrestrial planets
3. Planetary volcanism – Ultima Thule?
4. Planetary surface processes
5. Atmospheres of terrestrial planets
6. The giant planets
7. Minor bodies of the solar system
8. The origin of the solar system
9. Meteorites: a record of formation
Proctored Exams
This course requires that you take exams under the supervision of an approved proctor. Proctoring guidelines and registration for proctored exams are available online through the Ecampus testing and proctoring website. It is important to submit your proctoring request as early as possible to avoid delays.

Makeup Exams
Makeup exams take a considerable effort to schedule, so they will not be given under normal circumstances. Makeup exams will be given only for missed exams excused in advance by the instructor.

Incompletes
Incomplete (I) grades will be granted only in emergency cases (usually only for a death in the family, major illness or injury, or birth of your child), and if the student has turned in ~70% of the points possible. If you are having any difficulty that might prevent you completing the coursework, please don’t wait until the end of the term; let me know right away.

Statement Regarding Students with Disabilities
Accommodations are collaborative efforts between students, faculty and Disability Access Services (DAS) with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through DAS should contact DAS immediately at 541-737-4098.

Expectations for Student Conduct
Student conduct is governed by the university’s policies, as explained in the Office of Student Conduct: Information and Regulations.

Academic Integrity
Students are expected to comply with all regulations pertaining to academic honesty. For further information, visit Avoiding Academic Dishonesty, or contact the office of Student Conduct and Mediation at 541-737-3656.

OAR 576-015-0020 (2) Academic or Scholarly Dishonesty:

a) Academic or Scholarly Dishonesty is defined as an act of deception in which a Student seeks to claim credit for the work or effort of another person, or uses unauthorized materials or fabricated information in any academic work or research, either through the Student's own efforts or the efforts of another.

b) It includes:

(i) CHEATING - use or attempted use of unauthorized materials, information or study aids, or an act of deceit by which a Student attempts to misrepresent mastery of academic effort or information. This includes but is not limited to unauthorized copying or collaboration on a test or assignment, using prohibited materials and texts, any misuse of an electronic device, or using any deceptive means to gain academic credit.

(ii) FABRICATION - falsification or invention of any information including but not limited to falsifying research, inventing or exaggerating data, or listing incorrect or fictitious references.

(iii) ASSISTING - helping another commit an act of academic dishonesty. This includes but is not limited to paying or bribing someone to acquire a test or assignment, changing someone's grades or academic records, taking a test/doing an assignment for someone else by any means, including misuse of an electronic device. It is a violation of Oregon state law to create and offer to sell part or all of an educational assignment to another person (ORS 165.114).

(iv) TAMPERING - altering or interfering with evaluation instruments or documents.
(v) PLAGIARISM - representing the words or ideas of another person or presenting someone else’s words, ideas, artistry or data as one's own, or using one's own previously submitted work. Plagiarism includes but is not limited to copying another person's work (including unpublished material) without appropriate referencing, presenting someone else's opinions and theories as one's own, or working jointly on a project and then submitting it as one's own.

c) Academic Dishonesty cases are handled initially by the academic units, following the process outlined in the University's Academic Dishonesty Report Form, and will also be referred to SCCS for action under these rules.

Conduct in this Online Classroom
Students are expected to conduct themselves in the course (e.g., on discussion boards, email postings) in compliance with the university's regulations regarding civility.

OSU Student Evaluation of Teaching
Course evaluation results are extremely important and are used to help me improve this course and the learning experience of future students. Results from the 19 multiple choice questions are tabulated anonymously and go directly to instructors and department heads. Student comments on the open-ended questions are compiled and confidentially forwarded to each instructor, per OSU procedures. The online Student Evaluation of Teaching form will be available toward the end of each term, and you will be sent instructions via ONID by the Office of Academic Programs, Assessment, and Accreditation. You will log in to “Student Online Services” to respond to the online questionnaire. The results on the form are anonymous and are not tabulated until after grades are posted.