ASTRONOMY 1020 SYLLABUS
Dr. Wycherley

Fall Semester 2017

Cell Phones  Cell phones must be turned off before entering class and not used during class.

Note  This syllabus is for informational purposes only and is not to be construed as the basis of a contract between a student and this instructor.

Professor  Dr. David Wycherley.

Course  ASTR 1020 – Stelar and Galactic Astronomy.

Course Description  A general survey course in astronomy with emphasis on stars and galaxies.

Course Content  The course is divided into four units:
  Unit A – Overview and Celestial Sphere
  Unit B – EM Waves and Telescopes
  Unit C – Stars and Stellar Evolution
  Unit D – Galaxies and Cosmology

Prerequisite  Math 1111 (College Algebra) or Math 1101 (Math Modeling)

Attendance Policy  Required. You are allowed four free absences. Each absence beyond the fourth will incur a penalty of 5 points which will be deducted from your final average. Exception: missed classes due to illness, emergency or college sponsored activities will not count as absences.

Text  None required. Handouts will provide all of the relevant material.

Web-Sites  The internet abounds with information on astronomical topics. Just “google” or “bing” whatever it is you wish to know more about.

Homework  Homework will consist of studying the class notes, studying the emailed photos and solving the problems on the supplementary handouts.

Tests  Four unit tests will be given. The final exam period will be used for the fourth unit test. The unit tests will include multiple choice questions, short answer questions, math problems and picture identifications. Test questions will be based on material covered in lectures.

Makeup Tests  If an exam is missed for a valid or pre-excused reason (illness, emergency, surgery, etc.) I will schedule a makeup. An exam missed for a frivolous reason will be scored as a zero. All situations will be handled on a case by case basis.
Math Lab  The DSC Math Lab is located in Sequoyah 219. Students in all courses can go there to get help in math. The hours math lab is open are posted outside Sequoyah 219.

Calculator  You will need a calculator to do the math problems on the homework and tests. The most useful type of calculator for the math problems we will be doing is the TI – 30 or TI – 36 or something comparable. These are available in many stores in the $20 price range.

Grading  

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>four unit tests</td>
<td>100 each</td>
</tr>
<tr>
<td>extra credit points</td>
<td>TBA</td>
</tr>
</tbody>
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Grading Scale

- 90 – 100 A
- 80 – 89 B
- 70 – 79 C
- 60 – 69 D
- 00 – 59 F

Student Learning Outcomes

Upon completion of this course, the student should:

- be familiar with stars and constellations and the associated terminology
- be familiar with the names of famous astronomers and their accomplishments
- be familiar with the solar system and all its constituents, viz. the sun, planets, moons, asteroids, meteors, comets
- understand light and the electromagnetic spectrum
- understand how reflecting and refracting telescopes work
- understand the basic fusion process by which the sun converts hydrogen into helium
- be able to do simple mathematical calculations to determine the luminosity of a star
- understand the Hertzsprung-Russell diagram
- understand the general process of birth and death of stars
- be familiar with the Milky Way Galaxy
- be familiar with the various types of galaxies present in the universe and Hubble’s classification scheme
- be able to perform simple mathematical computations involving Hubble’s Law
- be familiar with cosmology, the branch of astronomy concerned with the past and future history of the universe
- understand the issues associated with the question as to whether life exists elsewhere in the universe and how we might find it
- be able to decode a hypothetical message from an alien civilization
Withdrawal from the Course

The last day to drop this class without penalty is **Wednesday, October 18, 2017**. You will be assigned a grade of W. After this date, withdrawal without penalty is permitted only in cases of extreme hardship as determined by the Vice President for Academic Affairs; otherwise a grade of WF will be issued. The proper form used to withdraw from all classes at the college after the official drop/add period but before the published withdrawal date is the Schedule Adjustment Form. Students who are assigned to the Academic Advising Center for advisement must meet with an advisor or staff member at the Academic Advising Center (107 Liberal Arts Building) to initiate the withdrawal process. After meeting with the staff member or advisor, all students will then finalize the withdrawal process in the Financial Aid Office. Students who fail to complete the official drop/withdrawal procedure will receive the grade of F. **Withdrawal from class is a student responsibility.** The grade of W counts as hours attempted for the purposes of financial aid.

Emergency Statement

Inclement Weather / College Closure Emergency Instructional Plan

In the event the college is closed due to inclement weather or another unforeseen event, adjustments will be made to the General Assignment Sheet and Calendar. Students will be informed of the changes upon the resumption of classes.

Disability Support Services Statement

Students with disabilities or special needs are encouraged to contact Disability Support Services. In order to make an appointment or to obtain information on the process for qualifying for accommodations, the student should visit the Disability Support Services Library Guide at http://www.libguides.daltonstate.edu/Disability

or contact the Coordinator of Disability Support Services.

Contact information:

Andrea Roberson, Coordinator
Pope Student Center, Lower Level
706 – 272 – 2524
aroberson@daltonstate.edu

Workforce Innovation Opportunities Act

Questions regarding students receiving financial assistance through the Workforce Innovation Opportunities Act should be directed to 706-295-6840.
**Campus Carry Law**

For information regarding HB 280 (campus carry) please visit the following website:

http://www.usg.edu/hb280

**QEP Statement**

Things to Know About the QEP

Dalton State College is accredited by the Southern Association of Colleges and Schools (SACS). SACS requires its schools to make improvements called a Quality Enhancement Plan (QEP).

The improvements to be made at DSC are in Learning Support English, ENGL 0098.

ENGL 0098 students will work in smaller sections and use technology more than before.

ENGL 0098 will also be joined to First Year Experience (FYES) courses, which teach success skills.

SACS also expects the entire campus to know about the QEP. SACS representatives will be coming this fall to check our campus. Please be very nice to them.