ASTRONOMY TELECOURSE PHS1200AAT1/AAT2/AAT3 SPRING 2012

LETTER OF AGREEMENT:

(Bring, or send, this first sheet to George Saum's office, Faculty Office AS16 2nd floor, East Side)

This is a letter of agreement. It is intended to help you complete the course successfully by making sure that you understand the course requirements as you begin the course.

Your first assignment is to read this 7 page Telecourse Handbook / Study Guide and to complete and return this letter of agreement (**first page only**) during the first week of the semester.

- **I will attempt to complete all tests successfully and within the scheduled times, and understand the consequences of being late in taking a test.**
- **I will meet with the instructor during the first week of the semester to turn in this agreement.**
- **I will call whenever I have questions about course requirements or my ability to meet them successfully.**
- **I have reviewed the test schedule and am aware of the due dates.**
- **I am aware that there are 7 tests.**
- **I am aware that the tests are available in the learning center for <u>three days.</u>**
- **Test 7 must be taken, no matter how well you did on Test 1- Test 6**
- **But, the lowest (or missed) test grade will be replaced by the 7<u>th</u> test score.**
- **(This will compensate for any inadvertent difficulty in meeting a test schedule or a "bad day")**
- **Tests may, of course, be taken early by contacting the instructor**
- **Anyone missing two successive tests early in the semester will be dropped for attendance reasons. (But: no drops are allowed after the drop deadline APR 16)**

Please complete the following information.

Name: _____

Last First

Mailing Address: _____

City, State, Zip: _____

Home Phone: _____ Best time to call:

Work/Alternate Phone: _____ Best time to call:

STUDY AND TESTING SCHEDULE FOR SPRING 2012

	TESTING CENTER DATES:	**STUDENT GUIDE LESSON & VIDEO LESSON NUMBER FROM ASTRONOMY: OBSERVATION AND THEORY**	**CORRESPONDING PAGES HORIZONS: EXPLORING THE UNIVERSE** **CHAPTERS**
	TEST 1 JAN 30-31 FEB 1 **M -T-W** LESSONS 1-3	1 Study of the Universe 2 Observing the Sky 3 Celestial Cycles	The Scale of the Cosmos The Sky Cycles of the Sky
	TEST 2 FEB 13-14-15 **M-T-W** LESSONS 4-6	4 The Birth of Astronomy 5 Astronomical Tools 6 The Science of Starlight	Origins of Modern Astronomy Astronomical Telescopes Starlight and Atoms
	TEST 3 FEB 27-28-29 **M-T-W** LESSONS 7-9	7 The Sun - Our Star 8 The Family of Stars 9 Stellar Births	The Sun The Family of Stars Formation and Structure of Stars
	TEST 4 MAR 26-27-28 **M-T-W** LESSONS 10-12	10 Stellar Deaths 11 Stellar Remnants 12 Our Galaxy: The Milky Way	The Death of Stars Neutron Stars and Black Holes The Milky Way Galaxy
	TEST 5 APR 9-10-11 **M-T-W** LESSONS 13-15	13 Galaxies 14 Active Galaxies 15 Cosmology	Galaxies Galaxies with Active Nuclei Cosmology in the 21st century
	TEST 6 APR 23-24-25 **M-T-W** LESSONS 16-17	16 Solar Systems 17 The Terrestrial Planets	The Origin of the Solar System Comparative Planetology of The Terrestrial Planets
	TEST 7 MAY 7-8-9 **M-T-W** LESSONS 18-20 (This is the final)	18 The Jovian Worlds 19 Solar System Debris 20 The Search for Life Beyond Earth	Comparative Planetology of the Outer Planets Meteorites, Asteroids, Comets Life on Other Worlds

MINERAL AREA COLLEGE

Telecourse Student Information Handout

INTRODUCTORY ASTRONOMY PHS 1200AAT1/AAT2/AAT3

TELECOURSE

SPRING 2012 3.0 Credit Hours

Dr. George Saum Office # 16 (faculty office area, 2nd floor East)
Lab AS 112
OFFICE HOURS 12:00 M T W R 10:00 F

Office phone voice mail: 573-518-2174

e-mail GSAUM@MINERALAREA.edu

SCIENCE DEPT CHAIR: Dr. Gamble AS 212B 573-518-2195

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COURSE OVERVIEW

Telecourse : **INTRODUCTORY ASTRONOMY.**

This Student Handout / Study Guide has been prepared to help you succeed in this course. It presents the course requirements, assignments, reminders, and general MAC information.

Your experience with INTRODUCTORY ASTRONOMY should be enjoyable, rewarding, and meaningful. By successfully completing the assignments and using the available teaming resources, you can complete the course and earn three units of college credit.

COURSE DESCRIPTION:

A telecourse introduction to the origin, characteristics, and evolution of the solar system, the stars, the galaxies, and the universe. Topics include historical milestones in the science of astronomy from ancient astronomers to the space probes of today, cultural aspects of astronomy, and current theories in astronomy including life on other worlds. Video programs include interviews with leading experts, original computer graphics, footage from the Jet Propulsion Laboratory, NASA, and the European Space Agency, and images from leading observatories throughout the world.

COURSE OBJECTIVES:

Introductory Astronomy, using the ASTRONOMY: OBSERVATIONS AND THEORY Telecourse, is designed to help you:

1. Explain the origin, structure, and evolution of the universe and all its components
2. Understand the techniques and tools used by astronomers to learn new information
3. Distinguish astronomical theories, which are well established from those that are highly speculative
4. Learn about the people involved in development of modem astronomy and develop historic time lines
5. Explain the impact of space science and technology on society, past and present
6. Understand the scientific method and how it applies to astronomy
7. Consider man's future beyond the earth

COURSE MATERIALS:

Textbook:

Seeds, Michael A., Horizons: Exploring, the Universe , 12th Edition, Brooks / Cole, 2012
ISBN 13-978-1-1114-3020-7

Study Guide:

Cusano, Levine, Sibbernsen, Student Guide for Astronomy: Observations and Theory , Thomson Brooks/Cole 2012
ISBN 1-133-10969-1

Video Lessons:

DVD: Astronomy: Observations and Theory, Coastline Community College

Handout:

MAC Telecourse Student Handout / Study Guide, Fall 2011, Mineral Area College (This 7 page handout)

20 half-hour video programs as follows:

1. The Study of the Universe
2. Observing the Sky
3. Celestial Cycles
4. The Birth of Astronomy
5. Astronomical Tools
6. The Science of Starlight
7. The Sun - Our Star
8. The Family of Stars
9. Stellar Births
10. Stellar Deaths
11. Stellar Remnants
12. Our Galaxy: The Milky Way
13. Galaxies
14. Active Galaxies
15. Cosmology
16. Solar Systems
17. The Terrestrial Planets
18. The Jovian Worlds
19. Solar System Debris
20. The Search for Life Beyond Earth

VIDEO PROGRAMS:

The DVD set " Astronomy: Observations and Theory" is available at the book store

ASSESSMENT:

There will be seven tests, 100 points each, during the semester.

The test questions will be similar to the questions in the study guide.

STUDY ALL THE QUESTIONS IN THE:

COURSE STUDENT GUIDE FOR ASTRONOMY: OBSERVATIONS AND THEORY

THOSE QUESTIONS FORM THE BASIS FOR THE TESTS.

IF YOU CAN ANSWER THOSE QUESTIONS, YOU WILL DO WELL ON THE TESTS.

The grading for the course will be as follows:

A	90-100 %
B	80-89
C	70-79
D	60-69
F	< 60

TEST SCHEDULE:

The tests will be given on the days indicated, in the MAC Learning Center, on the second floor of the library.
The tests may be taken any time during the time period indicated. **Be sure and check the hours of the learning center.**
The spring semester hours for most days are

8:00 am - 8:30 pm M T W R
8:00 am - 3:00 pm F

NOT OPEN FRIDAY EVENING

IMPORTANT: Start your test **at least one hour** before closing time. The center closes promptly at the above times.

This is a testing center strict rule.

SPECIAL NEEDS:

If you have special needs as addressed by the Americans with Disabilities Act and need any test or course materials provided in an alternative format, notify your instructor immediately. Reasonable efforts will be made to accommodate your special needs. Special Needs Services is located in AS 103, 518-2152. If you are a handicapped person and cannot attend the on-site examinations, please contact the instructor to make special arrangements.

WITHDRAWAL FROM THE TELECOURSE:

Please call me if you encounter problems - academic or personal - that might make you consider withdrawing from this course. I am here to help you succeed. If you must withdraw, you must complete & ADD/DROP form . Before you drop the course, please consider how that action might effect any financial aid you have received.

MAC's Policy for Disciplinary Action

"…College discipline shall be exercised when student misconduct adversely affects the college's pursuit of its educational objectives. Misconduct for which students are subject is defined as follows: Dishonesty, such as cheating, plagiarism, or knowingly furnishing false information to the college" (Mineral Area College Board Policy Manual, section 5.72, IA., p. 99).