

MASTER SYLLABUS

Course Discipline Code & No: AST 100 Title: Backyard Astronomy Effective Term Winter 2007
 Division Code: MNB Department Code: PHYS Org #: 12320
 Don't publish: College Catalog Time Schedule Web Page

Reason for Submission. Check all that apply.
 New course approval Reactivation of inactive course
 Three-year syllabus review/Assessment report Inactivation (Submit this page only.)
 Course change

Change information: Note all changes that are being made. Form applies only to changes noted.

Consultation with all departments affected by this course is required. Total Contact Hours (total contact hours were: _____)
 Course discipline code & number (was _____)* Distribution of contact hours (contact hours were:
 *Must submit inactivation form for previous course. lecture: _____ lab _____ clinical _____ other _____)
 Course title (was Introductory Astronomy) Pre-requisite, co-requisite, or enrollment restrictions
 Course description Change in Grading Method
 Course objectives (minor changes) Outcomes/Assessment
 Credit hours (credits were: _____) Objectives/Evaluation
 Other _____

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.
 Course is being updated for current objectives and outcomes. Development of assessment plan.

Approvals Department and divisional signatures indicate that all departments affected by the course have been consulted.

Department Review by Chairperson New resources needed All relevant departments consulted
 Print: Robert M. Hagood Signature: [Signature] Date: 1/22/07
 Faculty/Preparer
 Print: Robert M. Hagood Signature: [Signature] Date: 1/22/07
 Department Chair

Division Review by Dean
 Request for conditional approval
 Recommendation Yes No [Signature] JAN 22 2006
 Dean's/Administrator's Signature Date

Curriculum Committee Review
 Recommendation Tabled Yes No [Signature] 3/19/07
 Curriculum Committee Chair's Signature Date

Vice President for Instruction Approval
[Signature] 3/28/07
 Vice President's Signature Date
 Approval Yes No Conditional

Do not write in shaded area.
 Log File 1/23/07 Copy Banner 3/30 C&A Database 3/30 C&A Log File 3/30 Basic skills Contact fee

Please return completed form to the Office of Curriculum & Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.

2007/01

MASTER SYLLABUS

***Complete ALL sections which apply to the course, even if changes are not being made.**

Course: AST 100	Course title: Backyard Astronomy
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Credit hours: 1 If variable credit, give range: _____ to _____ credits	Contact hours per semester: <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center; border-bottom: 1px solid black;">Student</td> <td style="text-align: center; border-bottom: 1px solid black;">Instructor</td> </tr> <tr> <td>Lecture:</td> <td style="text-align: center;">15</td> <td style="text-align: center;">15</td> </tr> <tr> <td>Lab:</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td>Clinical:</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td>Practicum:</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td>Other:</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td>Totals:</td> <td style="text-align: center; border-top: 1px solid black;">15</td> <td style="text-align: center; border-top: 1px solid black;">15</td> </tr> </table>		Student	Instructor	Lecture:	15	15	Lab:	_____	_____	Clinical:	_____	_____	Practicum:	_____	_____	Other:	_____	_____	Totals:	15	15	Are lectures, labs, or clinicals offered as separate sections? <input type="checkbox"/> Yes - lectures, labs, or clinicals are offered in separate sections <input checked="" type="checkbox"/> No - lectures, labs, or clinicals are offered in the same section	Grading options: <input type="checkbox"/> P/NP (limited to clinical & practica) <input type="checkbox"/> S/U (for courses numbered below 100) <input checked="" type="checkbox"/> Letter grades
	Student	Instructor																						
Lecture:	15	15																						
Lab:	_____	_____																						
Clinical:	_____	_____																						
Practicum:	_____	_____																						
Other:	_____	_____																						
Totals:	15	15																						

Prerequisites. Select one:

<input checked="" type="checkbox"/> College-level Reading & Writing	<input type="checkbox"/> Reduced Reading/Writing Scores <small>(Add information at Level I prerequisite)</small>	<input type="checkbox"/> No Basic Skills Prerequisite <small>(College-level Reading and Writing is <u>not</u> required.)</small>
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In addition to Basic Skills in Reading/Writing:

Level I (enforced in Banner)

	Course	Grade	Test	Min. Score	Concurrent Enrollment <small>(Can be taken together)</small>	Corequisites <small>(Must be enrolled in this class also during the same semester)</small>
<input type="checkbox"/> and <input type="checkbox"/> or	_____	_____	_____	_____	<input type="checkbox"/>	_____
<input type="checkbox"/> and <input type="checkbox"/> or	_____	_____	_____	_____	<input type="checkbox"/>	_____
<input type="checkbox"/> and <input type="checkbox"/> or	_____	_____	_____	_____	<input type="checkbox"/>	_____
<input type="checkbox"/> and <input type="checkbox"/> or	_____	_____	_____	_____	<input type="checkbox"/>	_____

Level II (enforced by instructor on first day of class)

	Course	Grade	Test	Min. Score
<input type="checkbox"/> and <input type="checkbox"/> or	_____	_____	_____	_____
<input type="checkbox"/> and <input type="checkbox"/> or	_____	_____	_____	_____

Enrollment restrictions (In addition to prerequisites, if applicable.)

and or Consent required
 and or Admission to program required
 and or Other (please specify):
 Program: _____

Please send syllabus for transfer evaluation to:
 Conditionally approved courses are not sent for evaluation.
 Insert course number and title you wish the course to transfer as.

<input type="checkbox"/> E.M.U. as _____	<input type="checkbox"/> _____ as _____
<input type="checkbox"/> U of M as _____	<input type="checkbox"/> _____ as _____
<input type="checkbox"/> _____ as _____	<input type="checkbox"/> _____ as _____

MASTER SYLLABUS

<p>Course AST 100</p>	<p>Course title Backyard Astronomy</p>	
<p>Course description State the purpose and content of the course. Please limit to <u>500</u> characters.</p>	<p>An introduction to objects seen in the sky, with some opportunity for direct observation when weather permits. Astronomy is presented as a hobby as well as a basic science. No prior knowledge is required.</p>	
<p>Course outcomes List skills and knowledge students will have after taking the course.</p> <p>Assessment method Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.</p>	<p>Outcomes (applicable in all sections)</p> <p>The students will be able to identify objects in the night sky; and the phases of the moon.</p>	<p>Assessment Methods for determining course effectiveness</p> <hr/> <p>Department Exam</p>
<p>Course Objectives Indicate the objectives that support the course outcomes given above.</p> <p>Course Evaluations Indicate how instructors will determine the degree to which each objective is met for each student.</p>	<p>Objectives (applicable in all sections)</p> <p>Unit 1: The Night Sky: The students will be able to identify</p> <ol style="list-style-type: none"> 1. Motions in the sky: diurnal and annual. 2. Models: Ptolemaic vs Copernican 3. The Solar System: Sun's Family: planets, comets and meteors <p>Unit 2: The Moon and its phases. The students will be able to identify</p> <ol style="list-style-type: none"> 1. Phases of the Moon: New, Waxing, and Waning 2. Objects on the Moon: Maria, Craters, and Highlands <p>Unit 3: Planisphere: Students will be able to use the planisphere to located object on the planisphere.</p>	<p>Evaluation Methods for determining level of student performance of objectives</p> <hr/> <p>Homework setting</p> <p>Homework setting</p> <p>Laboratory assignment</p>

MASTER SYLLABUS

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List all new resources needed for course, including library materials.

Student Materials:

List examples of types Texts Supplemental reading Supplies Uniforms Equipment Tools Software	365 Starry Nights by Chet Raymo	Estimated costs \$ 40.00
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Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.)

Check level only if the specified equipment is needed for all sections of a course.

<input type="checkbox"/> Level I classroom Permanent screen & overhead projector <input type="checkbox"/> Level II classroom Level I equipment plus TV/VCR <input checked="" type="checkbox"/> Level III classroom Level II equipment plus data projector, computer, faculty workstation	<input type="checkbox"/> Off-Campus Sites <input type="checkbox"/> Testing Center <input type="checkbox"/> Computer workstations/lab <input type="checkbox"/> ITV <input type="checkbox"/> TV/VCR <input type="checkbox"/> Data projector/computer <input type="checkbox"/> Other _____
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Assessment plan:

Learning outcomes to be assessed (list from Page 3)	Assessment tool	When assessment will take place	Course section(s)/other population	Number students to be assessed
The students will be able to identify objects in the night sky; and the phase of the moon.	Departmental Exam	Winter 2008, Winter semester every three years after.	All sections	All students in all sections

Scoring and analysis of assessment:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric/scoring guide.

MASTER SYLLABUS

The final exam of the course will be the assessment tool. Each student will be given a sky chart and asked to identify the required objects. A correct identification will be score as a 1 and an incorrect identification will be scored as a 0.

2. Indicate the standard of success to be used for this assessment.

The average total score of the assessment will be 75% or greater for 80% of the students.

3. Indicate who will score and analyze the data (data must be blind-scored).

Class instructor and full time physics faculty will blind score the exams

4. Explain the process for using assessment data to improve the course.

This data will help the department find areas of weakness in the course, so that those areas of the course can be modified to help the students gain the knowledge that they need.