UNIVERSITY OF HAWAII COMMUNITY COLLEGES
PROPOSAL TO INITIATE, MODIFY OR DELETE A COURSE

OF ACTION (circle appropriate)
C. Modification
1. in credits
2. in title
3. in number or alpha
4. in prerequisites
5. Other (specify)

DELETION

EW ALPHA, NUMBER AND TITLE
ASTRON 110: Introduction to Astronomy

LD ALPHA, NUMBER AND TITLE

EW DESCRIPTION
Introduction to astronomical universe for nonscience students.

REQUISITES OR RECOMMENDED

B. STUDENT CONTACT HOURS PER WEEK
3 Lecture _______ Lab _______ Other (specify)

THIS COURSE IS (REQUIRED) (ELECTIVE) FOR THE _______ PROGRAM

THIS COURSE (INCREASES) (DECREASES) (MAKES NO CHANGE) IN THE NUMBER OF CREDITS
REQUIRED FOR THE PROGRAM.

SIMILAR COURSES OFFERED ELSEWHERE
College(s) Manoa: College of Continuing Education
Leeuward Community College

Alpha, Number, Title: ASTRON 110

THIS COURSE IS (ALREADY ARTICULATED) (APPROPRIATE FOR ARTICULATION)
(NOT APPROPRIATE FOR ARTICULATION)

PROVIDE DETAILS OF EXISTING OR DESIRED ARTICULATION (Date, college(s), purposes,
pre-major or major, etc.):
1. SPRING 1983 Semester
2. WGC

REASON FOR INITIATING, MODIFYING OR DELETING COURSE OR PERTINENT COMMENT:
3. To facilitate transfer of credits of students taking course.

REQUESTED BY

Department/Division

Chairperson

APPROVED BY

Curriculum Committee

(Date)

Dean of Instruction

Provost

CCEM #6100
(July 26, 1983)
LEVELS OF REVIEW OF COURSE PROPOSALS AT W

1. Subject Area (one or more instructors in the area)

   Bruce Ittles
   Earl Takemoto
   
   signatures

   dates

2. Division

   [Signature]
   Department/Chairperson

   date

3. Administrative Confirmation of System Requirements

   [Signature]

   date

4. Curriculum Committee First Review

   Disapproved
   
   Reason:

   Further Information Required
   Please provide the following:

   Approved for review by other divisions

   Curriculum Committee Chairperson

   date
   (target date:)

5. Curriculum Committee Second Review

   Approved
   
   Disapproved
   
   Reason:
   
   Curriculum Committee Chairperson

   date

12/7/82
WCC CURR. FORM 3
TRANSFER COURSE CRITERIA

Course: ASTRON 110

New: ______ Modified: ______

Submitted by: Gary Stice

Date: 8/15/82

1. RATE OF STUDENT PROGRESS:
   As per the course outline the first half of the course deals with planetary
   astronomy, the second half with stellar astronomy; weekly progress in
   learning topics.

2. BASIC SKILLS NEEDED:

   9th grade math & reading skills.

3. AMOUNT OF SKILLS AND INDEPENDENT WORK REQUIRED:

4. REASONING REQUIRED:
   Both inductive and deductive reasoning required.

5. CONCEPTUAL COURSE LEVEL:
   Survey of general principles and knowledge in Astronomy.

6. BACKGROUND KNOWLEDGE PREREQUISITE:
   None.

7. MASTERY LEVEL EXPECTED:
   Pass 60% of exam questions.

8. COUNTERPART IN 4 YEAR CAMPUS:
   ASTRON 110.

9. COURSE USE IN MAINLAND ACCREDITED SYSTEMS:
Syllabus

INTRODUCTION TO ASTRONOMY

Instructor: Mr. Joseph Ciotti
Course: ASTRO 110 Sec. 701
Location: Iolani 116 Windward Community College Campus
Time: Tu Th 7:30 - 8:45 pm

Office Hours: Tu Th 7:00 - 7:30 pm
Iolani 107

1. Textbook: Jay M. Pasachoff, ASTRONOMY NOW

W. B. Saunders Co, 1978

A topic outline with reading assignments and suggested questions is reproduced on the reverse side of this sheet.

2. Excursions: Two field trips to the Bishop Museum Planetarium (Kalani area of Honolulu) are currently planned for constellation identification and telescope observations. Dates are Tuesday, September 14 and Tuesday, October 12. A map will be provided for those needing directions on driving to the Planetarium.

3. Examinations: Three objective-type tests will be given during the semester. Dates are listed on the course syllabus on the reverse side of this sheet. Exams 1 and 2 will consist of 50 multiple-choice and fill-in the blank questions each. Exam 3, which is scheduled for the assigned final exam day for this class (21 Dec, 7:30 - 9:20 pm), consists of 100 such questions. Approximately 60% of the questions measure facts and definitions with the remaining 40% measuring concepts and applications.

4. Evaluation Criteria:

a. Regular classroom attendance is the responsibility of each student and is one of the necessary requirements for passing.

b. Letter grades are computed from the average of the 3 exams, which total 200 points. Minimum average (or points) for each letter grade is:
   A: 90% (180)  B: 80% (160)  C: 70% (140)  D: 60% (120)

c. Optional Extra Credit: DUE NO LATER THAN Tuesday, Dec 7. Worth up to an extra 10% (20 points) toward the final average. PROJECT: Student is to select a narrow topic in Astronomy. After consultation with and approval by the instructor, the student is to write a six (6) page report on the subject using at least eight (8) references (books or magazine articles). The main text of the paper is to be typed using double-spacing and is no to exceed eight (8) pages. One typed page of references must also be included. Drawings and charts are optional and to be included as...
<table>
<thead>
<tr>
<th>Class</th>
<th>Date</th>
<th>Lecture Topic</th>
<th>Reading Assignment</th>
<th>Suggested Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>26 Aug Th</td>
<td>Course Objectives &amp; Overview</td>
<td>3.11-12 / 10.1-2</td>
<td>10: 5</td>
</tr>
<tr>
<td>2</td>
<td>31 Aug Tu</td>
<td>Naked-Eye Astronomy</td>
<td>10.3-4</td>
<td>10: 7, 8, 9</td>
</tr>
<tr>
<td>3</td>
<td>2 Sep Th</td>
<td>Builders of Monuments, Models &amp; Theories</td>
<td>pp. 124-5 / 10.5 / Chp 14</td>
<td>10: 1</td>
</tr>
<tr>
<td>4</td>
<td>7 Sep Tu</td>
<td>Solar System Overview &amp; The Earth</td>
<td>Chp 11</td>
<td>11: 5 - 10</td>
</tr>
<tr>
<td>5</td>
<td>9 Sep Tu</td>
<td>The Moon</td>
<td>pp. 10-15</td>
<td>12: 5, 8-10 / 13: 1,3-5,9,10</td>
</tr>
<tr>
<td>6</td>
<td>14 Sep Tu</td>
<td>PLANETARIUM EXCURSION: Constellations</td>
<td>Chps 12 &amp; 13</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>16 Sep Th</td>
<td>Mercury &amp; Venus</td>
<td>Review material from lessons 2 - 7</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>21 Sep Tu</td>
<td>EXAM 1</td>
<td>Chp 15</td>
<td>15: 1, 2, 5-7, 11, 12</td>
</tr>
<tr>
<td>9</td>
<td>23 Sep Th</td>
<td>Mars</td>
<td>Chps 16 &amp; 17</td>
<td>16: 1, 4,7 / 17:1,5-8, 12</td>
</tr>
<tr>
<td>10</td>
<td>28 Sep Tu</td>
<td>Jupiter to Pluto</td>
<td>Chp 18</td>
<td>18: 1, 5, 8, 11, 13</td>
</tr>
<tr>
<td>11</td>
<td>30 Sep Th</td>
<td>Comets, Asteroids &amp; Meteoroids</td>
<td>10.6</td>
<td>269: 1-3, 5-9</td>
</tr>
<tr>
<td>12</td>
<td>5 Oct Tu</td>
<td>Structure &amp; Origin of Solar System</td>
<td>3.1-9</td>
<td>3: 1, 5, 6, 8-10</td>
</tr>
<tr>
<td>13</td>
<td>7 Oct Tu</td>
<td>Astronomical Instruments</td>
<td>19.6</td>
<td>19: 1, 4, 6</td>
</tr>
<tr>
<td>14</td>
<td>12 Oct Tu</td>
<td>PLANETARIUM EXCURSION: Astrology</td>
<td>19.1-5</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>14 Oct Th</td>
<td>Extraterrestrial Life</td>
<td>Review material from lessons 9 - 15</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>19 Oct Th</td>
<td>EXAM 2</td>
<td>6.3</td>
<td>6: 5, 6</td>
</tr>
<tr>
<td>17</td>
<td>21 Oct Th</td>
<td>Properties of Matter</td>
<td>2.1-5</td>
<td>2: 6 - 8, 11 - 13</td>
</tr>
<tr>
<td>18</td>
<td>26 Oct Tu</td>
<td>Properties of Energy</td>
<td>2.6-10</td>
<td>2: 19 -21, 27</td>
</tr>
<tr>
<td>19</td>
<td>28 Oct Th</td>
<td>Ordinary Stars</td>
<td>2.11-15</td>
<td>2: 15, 16, 22, 28</td>
</tr>
<tr>
<td>20</td>
<td>2 Nov Tu</td>
<td>*** ELECTION DAY ***</td>
<td>4.1-4</td>
<td>4: 5, 7, 8, 11</td>
</tr>
<tr>
<td>21</td>
<td>4 Nov Tu</td>
<td>Stellar Distance &amp; Motion</td>
<td>5.1-4, 5.6-7, 5.11</td>
<td>5: 1, 3, 7-10, 15</td>
</tr>
<tr>
<td>22</td>
<td>9 Nov Tu</td>
<td>Variable Stars &amp; Stellar Clusters</td>
<td>6.1-2, 6.4-7</td>
<td>6: 1, 2, 4, 7, 10-16</td>
</tr>
<tr>
<td>23</td>
<td>11 Nov Th</td>
<td>*** VETERANS' DAY ***</td>
<td>Chp 7</td>
<td>7: 1-3, 6, 8-11, 14</td>
</tr>
<tr>
<td>24</td>
<td>16 Nov Tu</td>
<td>The Sun</td>
<td>Chp 8</td>
<td>8: 1 - 3, 8, 10</td>
</tr>
<tr>
<td>25</td>
<td>18 Nov Th</td>
<td>Stellar Evolution</td>
<td>9.1-3, 9.5-6</td>
<td>9: 1, 2, 9, 10</td>
</tr>
<tr>
<td>27</td>
<td>2 Dec Th</td>
<td>*** THANKSGIVING DAY ***</td>
<td>25:1-4</td>
<td>25:3</td>
</tr>
<tr>
<td>28</td>
<td>7 Dec Tu</td>
<td>Supernovae</td>
<td>Chp 8</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>9 Dec Th</td>
<td>Black Holes</td>
<td>Review material from lessons 17 - 29</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>14 Dec Th</td>
<td>Milky Way</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>16 Dec Th</td>
<td>Galaxies &amp; Quasars</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>18 Dec Th</td>
<td>Cosmology &amp; Course Evaluation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>