University of Hawai‘i – Honolulu Community College
GENERAL EDUCATION - Diversification Designation
Certification and Recertification
Application Form
(Fall 2010)

APPLICANT: Jennifer J. Higa-King
E-MAIL: higaking@hawaii.edu

COURSE ALPHA and NUMBER: PSY230

COURSE TITLE: Introduction to Psychobiology

ESTIMATED NUMBER OF SECTIONS: Fall 1 Spring 1

Is this request for a: ☒ New Course ☐ Modified Course ☐ Existing Course
☐ Re-designation

Is this request for a: ☒ Certification ☐ Re-Certification. Date of last certification:

DIVERSIFICATION AREA DESIGNATION SOUGHT:

☐ DA (Arts) ☐ DP (Physical Sciences)
☒ DB (Biological Sciences) ☐ DS (Social Sciences)
☐ DH (Humanities) ☐ DY (Laboratory)
☐ DL (Literature and Language)

What percentage of the CONTENT of this course focuses on this diversification area? 80%
What percentage of CLASS MEETINGS focuses on this diversification area? 80%

1. Please explain how the course SLOs align with the diversification area’s hallmarks.

Explanatory notes. The hallmarks (three for each designation) are posted on the HCC Intranet. In the text-box below, state the hallmarks for the diversification designation you are seeking and explain how the course SLOs meet each hallmark. For example, an SLO for Hallmark #3 for a DS designation would be to understand how descriptive and inferential statistics are used to summarize and evaluate results from psychological studies.

Hallmark DB.1. Uses the terminology of the biological sciences. The following course SLOs address hallmark:
SLO #1. Describe the approach and scope of the field of psychobiology.
SLO #2. Describe the basic structures and functions of the nervous system.
By covering the field of psychobiology, the structure and function of the nervous system, and
brain-behavior mechanisms, these SLOs (in addition to SLOs #3 and #4, below) will provide students with key terminology in the field.

Hallmark DB.2. Involves knowledge and theories relating to processes in the biological sciences. The following course SLOs address this hallmark:
SLO #3. Demonstrate knowledge about the neural mechanisms of behavior and mental processes.
SLO #4. Describe theories about the interaction between nature and nurture in determining behavior.
Information about brain-behavior mechanisms, the biological basis of mental processing (e.g., memory), and how genetics and evolution and the environment shape behavior will involve information about theories and knowledge in the field of psychobiology.

Hallmark DB.3. Demonstrates inquiry that is guided by observation/experiment and reasoning/mathematics. The following course SLOs address this hallmark:
SLO #5. Identify research methods used in the field of psychobiology, the rationale behind the methods, and evaluate their strengths and limitations in addressing questions about the biological basis of behavior.
Coverage of experimentation, research methodology, and reasoning provides students knowledge about how questions in the field of psychobiology are developed and studied as a science.

2. Explain assessment strategies you plan to use (or have used, in the case of recertification) to measure the degree to which students exit the course with the expected SLOs. If there are multiple sections of the course, please discuss how assessment will be carried through all sections.

Assessment methods addressing course SLOs include a paper on a topic in psychobiology (e.g., neural basis of memory) and exams consisting of multiple-choice questions, definitions, short-answer questions, and essays. The exams and paper will measure the extent to which students understand terminology, principles, theories, and overarching issues in psychobiology.

Explanatory notes. The applicant should clearly connect assessment strategies to the course SLOs stated in Question #1. For example, an assessment strategy for an SLO would be to have a set of questions on an exam, which requires students to evaluate a hypothetical study in terms of research methodology, and descriptive statistics (calculate the mean, median, mode of a data set).

3. How have you used the assessment findings to modify or improve this course?

N/A

Explanatory notes. If this is a new course, enter “N/A” as an answer. Courses being re-certified should include a summary of how assessment strategies and measures (Question #2) were used to modify or improve the course.

Reminder: If this is an application for an EXISTING or MODIFIED course, please attach a copy of your course syllabus that includes information described in the instruction part of this form.
DIVERSIFICATION BOARD DECISION:

☑ Approved

Re-Certification Due: 3/2016

☐ Not approved

If not approved, reasons for disapproval:

Diversification Chair Signature: [Signature]

Date: 1/31/11
University of Hawai'i Honolulu Community College
CURRICULUM ACTION PROPOSAL
ADD a New Course

Course Alpha & No.: PSY230
Proposer: Jennifer J. Higa-King
Effective Term: Fall 2011

PROPOSAL SUMMARY (Include reasons for adding course, and similar courses offered elsewhere, i.e. college, alpha, number, title):

This proposal is for a new course designed to fulfill a requirement for the Academic Subject Certificate (ASC) in psychology. The ASC in psychology provides coursework supporting students declaring a psychology major within the College of Arts and Sciences at the University of Hawaii at Manoa. In addition to core classes, students seeking an ASC in psychology must complete an upper division course in three of four disciplines in psychology - experimental, psychobiological, developmental, social and personality. PSY230 is proposed as a course satisfying the Psychobiology discipline.

PSY230 is offered at UH-M, KCC, and LCC.

SIGNATURES

Proposal: Jennifer Higa-King 1/28/11
Author / Date
Division Chair / Date
General Education Board (if Applicable) / Date

Approval:
Division Curriculum Committee Chair / Date
Committee on Programs & Curricula Chair / Date
Vice Chancellor of Academic Affairs / Date
Chancellor / Date
INSTRUCTIONS: Complete all applicable fields. Continue overflow text on p. 3 under “Additional Information”.

<table>
<thead>
<tr>
<th>Course Alpha &amp; No.:</th>
<th>PSY230</th>
<th>Effective Term:</th>
<th>Fall 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Type:</td>
<td>Regular</td>
<td>Experimental Course Expiration Date:</td>
<td></td>
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<tr>
<td>Title:</td>
<td>Introduction to Psychobiology</td>
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<td></td>
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<tr>
<td>Banner Title (30 characters):</td>
<td>Intro to Psychobiology</td>
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**Does this course satisfy Career & Technical Education GEN ED Requirements (A.S. / A.A.S.)?**
If “YES”, select GEN ED requirement 2a. Understanding the Natural Environment (ASGA)

**Does this course satisfy Liberal Arts A.A. GEN ED Requirements &/or UHM GEN ED Core Articulation?**
If “YES”, select GEN ED requirement below.

<table>
<thead>
<tr>
<th>FOUNDATION</th>
<th>DIVERSIFICATION</th>
<th>DIVERSIFICATION</th>
<th>OTHER</th>
</tr>
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<tbody>
<tr>
<td>LBART</td>
<td>A.A. UHM</td>
<td>LBART</td>
<td>A.A. UHM</td>
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<tr>
<td>Written Communication (FW)</td>
<td>☐ ☐</td>
<td>Arts (DA)</td>
<td>☐ ☐</td>
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<tr>
<td>Symbolic (FS)</td>
<td>☐ ☐</td>
<td>Humanities (DH)</td>
<td>☐ ☐</td>
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<tr>
<td>Global/Multicultural Perspectives (PG)</td>
<td>☐ ☐</td>
<td>Literature (DL)</td>
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<tr>
<td>Social Sciences (DS)</td>
<td>☐ ☐</td>
<td>Physical Sciences Lab (DY)</td>
<td>☐ ☐</td>
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| Class Length (weeks): | 16 |
| Credits: | 3 |
| Repeat & Credit Limit: | May be repeated 0 time(s) for a maximum of _ _ credits |
| Schedule Type: | LEC (Lecture) |
| Weekly Student Contact Hrs: | 3 Hours Lecture per Week |
| | _ _ Hours Lab per Week |
| | 3 Total Contact hrs per Week |
| Grading Option: | Letter Grade Only |
| Enrollment Maximum: | 30 |
| Special Approval: | Click To Select |
| Major Restriction: | none |
| Prerequisite: | C or higher in PSY100 |
| Prerequisite or Corequisite: | none |
| Corequisite: | none |
| Bracket Course with: | none |
| Recommended Prep: | none |
| Cross Listed Courses: | none |
| Comment for online SOC: | none |
**CURRICULUM ACTION PROPOSAL**
ADD a New Course

| Course Alpha & No.: PSY230 | Effective Term: Fall 2011 |

**Catalog Course Description:**
Survey of the study of behavior from a natural sciences viewpoint. Evolution, ethological analysis of behavior, behavior genetics, neural mechanisms, drugs and behavior, biological development.

**Additional Information to print with Course Description:**

| ☐ YES ☐ NO Does this proposal affect Programs and/or Courses? (If "Yes" continue below.) |
| ☐ YES ☐ NO Were the affected Programs/Departments consulted and notified? |

**This Proposal affects Program requirements:**

- The number of Credits for these Programs: _____ *
- Prerequisite for these Programs: _____ *
- Requirement for these Programs: _____ *
- Elective for these Programs: _____
- Other *

* Attach Program Modification Forms

**This Proposal affects other Courses:**

- Prerequisite for these Courses: _____ **
- Prerequisite or Co-requisite for these courses: _____ **
- Co-requisite for these Courses: _____ **
- Recommended Prep for these Courses: _____ **
- Cross-list for these Courses: _____ **
- Other **

** Attach Course Modification Forms

Describe changes marked above:

| ☐ YES ☐ NO Does this proposal require additional resources? (Such as staff, equipment, facilities, etc.) |
If yes, provide details and indicate whether or not resources are available.

**Additional information:**
Honolulu Community College
Course Outline

See instructions for information on each item.

<table>
<thead>
<tr>
<th>Course Alpha &amp; No.: PSY230</th>
<th>Semester Credit Hours: 3</th>
<th>Effective Term: Fall 2011</th>
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</thead>
<tbody>
<tr>
<td>Course Title: Introduction to Psychobiology</td>
<td>Co-requisites: none</td>
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<tr>
<td>Prerequisites: C or higher in PSY100</td>
<td>Recommended Prep: none</td>
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</tr>
<tr>
<td>Prerequisites or Co-requisites: none</td>
<td>Instructor Approval or other Approval: none</td>
<td></td>
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<tr>
<td>Major Restrictions: none</td>
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</tbody>
</table>

1. Catalog Course Description:
Survey of the study of behavior from a natural sciences viewpoint. Evolution, ethological analysis of behavior, behavior genetics, neural mechanisms, drugs and behavior, biological development.

2. Student Learning Outcomes:
Upon successful completion of this course, a student will be able to:
1. Describe the approach and scope of the field of psychobiology.
2. Describe the basic structures and functions of the nervous system.
3. Demonstrate knowledge about the neural mechanisms of behavior and mental processes.
4. Describe theories about the interaction between nature and nurture in determining behavior.
5. Identify research methods used in the field of psychobiology, the rationale behind the methods, and evaluate their strengths and limitations in addressing questions about the biological basis of behavior.

3. Means by which the assessment of the SLOs will be accomplished:
Assessment methods will include a paper on a topic in psychobiology and exams consisting of multiple-choice questions, definitions, short-answer questions, and essays.

4. Program Learning Outcomes addressed by this course:
The Liberal Arts Program Learning Outcomes that the course addresses are:
(#3) Demonstrate an understanding of the life processes, individual development, thinking process, and behavior as well as an understanding of the natural environment of the planet and the universe in which we are situated and learn to utilize natural resources without damaging the environment.
(#4) Demonstrate a comprehension and skill with research methods and scientific inquiry.

5. Method(s) of Instruction:
Lectures, in-class activities, classroom demonstrations.

6. Method(s) of Evaluation:
Grades will be based on scores on exams and a written paper. Scores will reflect students' understanding of the terminology, principles, theories, and overarching issues in psychobiology. Students will also be evaluated on their ability to apply ideas and research findings in the field of psychobiology. Final grades will be determined by the percentage of points earned at the end of the semester.
7. Course Content:
   1. What is Biopsychology?
   2. Communication Within the Nervous System
   3. The Functions of the Nervous System
   4. The Methods and Ethics of Research
   5. Drugs, Addiction, and Reward
   6. Motivation and the Regulation of Internal States
   7. The Biology of Sex and Gender
   8. Emotion and Health
   9. Hearing and Language
   10. Vision and Visual Perception
   11. The Body Senses and Movement
   12. Learning and Memory
   13. Intelligence and Cognitive Functioning
   14. Psychological Disorders
   15. Sleep and Consciousness

8. Possible Texts:
   One of the following:

9. Reference and/or Auxiliary Materials (If any):
   Additional material provided as needed.

10. Resource Requirements (If applicable):
    none

11. Relationship to other courses in the program (If applicable):
    The course fulfills the ASC in psychology requirement in which students must complete a course in three of four disciplines in psychology.
    PSY230 fulfills the psychobiology discipline.

12. General Education or other requirement(s) satisfied:
    At UH-M, PSY230 fulfills the DB (biological diversification) requirement. We are seeking DB designation at HCC.

13. Articulation (If applicable):
    Articulation is requested with UH-M and UH-WO

14. Additional Information of Importance:
    none