

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

COURSE MODIFICATION PROPOSAL

Courses must be submitted by October 15, 2014, and finalized by the end of the fall semester to make the next catalog (2015-16) production

DATE (CHANGE DATE EACH TIME REVISED): 10/15/14 12/8/14

PROGRAM AREA(S): BIOL COURSE NO: 332

Directions: All sections of this form must be completed. Use YELLOWED areas to enter data. All documents are stand-alone sources of course information.

1. Indicate Changes and Justification for Each. [Mark all change areas that apply]

| | |
|---|--|
| <input type="checkbox"/> Course title | <input type="checkbox"/> Course Content |
| <input type="checkbox"/> Prefix/suffix | <input checked="" type="checkbox"/> Course Learning Outcomes |
| <input type="checkbox"/> Course number | <input type="checkbox"/> References |
| <input type="checkbox"/> Units | <input checked="" type="checkbox"/> X GE |
| <input type="checkbox"/> Staffing formula and enrollment limits | <input type="checkbox"/> Other <input type="checkbox"/> |
| <input type="checkbox"/> Prerequisites/Corequisites | <input type="checkbox"/> Reactivate Course |
| <input type="checkbox"/> Catalog description | |
| <input type="checkbox"/> Mode of Instruction | |

Justification: ☐

(Please provide justification(s) for each marked item above). Be as brief as possible but use as much space as necessary.]:

This course has always been a UDIGE course. The social science chairs have requested that we remove this course from category D, and the biology program has agreed. That is the only change we are making at this time.

2. Course Information.

[Follow accepted catalog format.] (Add additional prefixes i f cross-listed)

OLD

Prefix BIOL Course# 332
Title Cancer and Society Units (3)
3 hours lecture per week
☐ hours ☐ per week

☐ Prerequisites: ☐
☐ Consent of Instructor Required for Enrollment
☐ Corequisites: ☐

Catalog Description (Do not use any symbols):

The underlying molecular causes of cancer, the impact of environmental and genetic factors on cancer causation and prevention, recent advances in diagnosis and treatment of the disease, and the impact that this disease, which will affect one in three adults, has on society.
No credit given toward the biology major.

General Education Categories: B2, D, UDIGE

Grading Scheme (Select one below):

☒ A – F

☐ Credit/No Credit

☐ Optional (Student's Choice)

Repeatable for up to ☐ units

Total Completions ☐

Multiple Enrollment in Same Semester Y/N N

Course Level:

NEW

Prefix BIOL Course# 332
Title Cancer and Society Units (3)
3 hours lecture per week
☐ hours ☐ per week

☐ Prerequisites: ☐
☐ Consent of Instructor Required for Enrollment
☐ Corequisites: ☐

Catalog Description (Do not use any symbols):

The underlying molecular causes of cancer, the impact of environmental and genetic factors on cancer causation and prevention, recent advances in diagnosis and treatment of the disease, and the impact that this disease, which will affect one in three adults, has on society.
No credit given toward the biology major.

General Education Categories: B2, UDIGE

Grading Scheme (Select one below):

☒ A – F

☐ Credit/No Credit

☐ Optional (Student's Choice)

Repeatable for up to ☐ units

Total Completions ☐

Multiple Enrollment in Same Semester Y/N N

Course Level:

X Undergraduate
☐ Post-Baccalaureate
☐ Graduate

X Undergraduate
☐ Post-Baccalaureate
☐ Graduate

3. Mode of Instruction (Hours per Unit are defaulted)

Hegis Code(s) _____
 (Provided by the Dean)

Existing

Proposed

| | Units | Hours Per Unit | Benchmark Enrollment | Graded | | Units | Hours Per Unit | Benchmark Enrollment | Graded | CS No. (filled out by Dean) |
|---------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|
| Lecture | <u>3</u> | <u>1</u> | <u>30</u> | <input type="checkbox"/> | Lecture | <u>3</u> | <u>1</u> | <u>30</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| Seminar | <input type="checkbox"/> | <u>1</u> | <input type="checkbox"/> | <input type="checkbox"/> | Seminar | <input type="checkbox"/> | <u>1</u> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Lab | <input type="checkbox"/> | <u>3</u> | <input type="checkbox"/> | <input type="checkbox"/> | Lab | <input type="checkbox"/> | <u>3</u> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Activity | <input type="checkbox"/> | <u>2</u> | <input type="checkbox"/> | <input type="checkbox"/> | Activity | <input type="checkbox"/> | <u>2</u> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Field Studies | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Field Studies | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Indep Study | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Indep Study | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other blank | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Other blank | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Online | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Online | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

4. Course Attributes:

☐ General Education Categories: All courses with GE category notations (including deletions) must be submitted to the GE website: <http://summit.csuci.edu/ge>
 Upon completion, the GE Committee will forward your documents to the Curriculum Committee for further processing.

A (English Language, Communication, Critical Thinking)

- ☐ A-1 Oral Communication
☐ A-2 English Writing
☐ A-3 Critical Thinking

B (Mathematics, Sciences & Technology)

- ☐ B-1 Physical Sciences
 X B-2 Life Sciences – Biology
☐ B-3 Mathematics – Mathematics and Applications
☐ B-4 Computers and Information Technology

C (Fine Arts, Literature, Languages & Cultures)

- ☐ C-1 Art
☐ C-2 Literature Courses
☐ C-3a Language
☐ C-3b Multicultural

D (Social Perspectives)

E (Human Psychological and Physiological Perspectives)

X UDIGE/INTD Interdisciplinary

X Meets University Writing Requirement (Graduation Writing Assessment Requirement)

☐ Meets University Language Requirement

☐ American Institutions, Title V Section 40404: ☐ Government ☐ US Constitution ☐ US History
 Regarding Exec Order 405, for more information: <http://senate.csuci.edu/comm/curriculum/resources.htm>

☐ Service Learning Course (Approval from the Center for Community Engagement must be received before you can request this course attribute).

☐ Online Course (Answer YES if the course is ALWAYS delivered online).

5. Justification and Requirements for the Course. [Make a brief statement to justify the need for the course]

OLD

This is an upper division General Education course designed to **acquaint** non-biology majors

NEW

This is an upper division General Education course designed to **acquaint** non-biology majors

with the underlying molecular causes of cancer, the impact of environmental and genetic factors on cancer causation and prevention, recent advances in diagnosis and treatment of the disease, and the impact that this disease, which will affect one in three adults, will have on society. The **prevalance** of cancer in our society justifies the need for a wider understanding of this complex group of diseases and the regimes that are used for diagnosis and treatment.

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Requirement for the Major/Minor
Elective for the Major/Minor
Free Elective

Requirement for the Major/Minor
Elective for the Major/Minor
Free Elective

Submit Program Modification if this course changes your program.

6. Student Learning Outcomes. (List in numerical order. Please refer to the Curriculum Committee's "Learning Outcomes" guideline for measurable outcomes that reflect elements of Bloom's Taxonomy: <http://senate.csuci.edu/comm/curriculum/resources.htm>. The committee recommends 4 to 8 student learning outcomes, unless governed by an external agency (e.g., Nursing).

Upon completion of the course, the student will be able to:

OLD

- . Students completing this class should be equipped with the knowledge and skills to:
 1. Apply inductive and deductive reasoning to evaluate the biological mechanisms that lead to the induction of cancer.
 2. Assess the contribution of environmental and genetic factors to cancer causation.
 3. Describe the latest techniques in the diagnosis and treatment of cancer.
 4. Identify public health issues and concerns attributable to cancer.
 5. Evaluate realistically information derived from current literature, news media and on-line sources on the causes, prevention and treatment of cancer..

Upon completion of the course, the student will be able to:

NEW

- . Students completing this class should be equipped with the knowledge and skills to:
 1. Apply inductive and deductive reasoning to evaluate the biological mechanisms that lead to the induction of cancer.
 2. Assess the contribution of environmental and genetic factors to cancer causation.
 3. Describe the latest techniques in the diagnosis and treatment of cancer.
 4. Identify public health issues and concerns attributable to cancer.
 5. Evaluate realistically information derived from current literature, news media and on-line sources on the ca prevention and treatment of cancer.
 6. Integrate content, ideas, and approaches from integrative perspectives across disciplines.

(GE 1.1c)

7. Write effectively in various forms (GE 4.2)

7. Course Content in Outline Form. (Be as brief as possible, but use as much space as necessary)

OLD

- . Introduction
- . Characteristics of human cancer
- . The genetic basis of cancer
- . Environmental factors in cancer
- . Diagnosis and treatment of cancer
- . Cancer Immunology
- . Prevention of cancer
- . Cancer epidemiology
- . The societal impact of cancer

NEW

- . Introduction
- . Characteristics of human cancer
- . The genetic basis of cancer
- . Environmental factors in cancer
- . Diagnosis and treatment of cancer
- . Cancer Immunology
- . Prevention of cancer
- . Cancer epidemiology
- . The societal impact of cancer

Does this course content overlap with a course offered in your academic program? Yes ☐ No ☒ X
If YES, what course(s) and provide a justification of the overlap. ☐

Does this course content overlap a course offered in another academic area? Yes ☐ No ☒ X
If YES, what course(s) and provide a justification of the overlap. ☐

Overlapping courses require Chairs' signatures.

8. Cross-listed Courses (Please note each prefix in item No. 1)

- A. List cross-listed courses (Signature of Academic Chair(s) of the other academic area(s) is required).
- B. List each cross-listed prefix for the course: ☐
- C. Program responsible for staffing: ☐

9. References. [Provide 3-5 references]

- . **OLD Cancer Biology**, by R.W. Ruddon, Oxford, 3rd Ed, 2001, ISBN 0-1950-9691-6
- . **Biology of Cancer** by R. Phillis, S. Goodwin and M. Palladino, Addison Wesley & Benjamin Cummings, 2003, ISBN 0-8053-14687-0
- . **Cancer The Evolutionary Legacy**, by M. Greaves. Oxford, 2000, ISBN 0-1926-2834-8
- . **American Cancer Society: Informed Decisions, the Complete Book of Cancer Diagnosis, Treatment and Recovery**, by G P M urphy, LB M orris and D Lange, Viking, 1997, ISBN 0 - 6708-5370-4.

- . **NEW Cancer Biology**, by R.W. Ruddon, Oxford, 4rd Ed, 2007, ISBN 0-1950-9691-6
- . **Biology of Cancer** by R. Phillis, S. Goodwin and M. Palladino, Addison Wesley & Benjamin Cummings, 2003, ISBN 0-8053-14687-0
- . **Cancer The Evolutionary Legacy**, by M. Greaves. Oxford, 2000, ISBN 0-1926-2834-8
- . **American Cancer Society: Informed Decisions, the Complete Book of Cancer Diagnosis, Treatment and Recovery**, by GP Murphy, LB Morris and D Lange, Viking, 1997, ISBN 0-6708-5370-4.

10. Tenure Track Faculty qualified to teach this course.
Biology Faculty

11. Requested Effective Date or First Semester offered: Fall 2015

12. New Resource Requested: Yes ☐ No ☒ X
If YES, list the resources needed.

A. Computer Needs (data processing, audio visual, broadcasting, other equipment, etc.)
☐

B. Library Needs (streaming media, video hosting, databases, exhibit space, etc.)
☐

C. Facility/Space/Transportation Needs:
☐

D. Lab Fee Requested: Yes ☐ No ☐ (Refer to the Dean's Office for additional processing)

E. Other. ☐

13. Will this course modification alter any degree, credential, certificate, or minor in your program? Yes ☐ No ☒ X

If, YES attach a program update or program modification form for all programs affected.

Deadline for New Minors and Programs: **October 1, 2014.**

Deadline for Course Proposals and Modifications, and for Program Modifications: **October 15, 2014.**

Last day to submit forms to be considered during the current academic year: **April 1, 2015.**

Amy Denton

10/15/2014

Proposer(s) of Course Modification

Date

Type in name. Signatures will be collected after Curriculum approval.

GE Committee response to your request have BIOL332: Cancer and Society added to **B2: Life Sciences -- Biology**

Approved by 2014-2015 GE Committee:

BIOL 332 forwarded to Curriculum Committee for review.

Request Submitted

Course: BIOL332 Cancer and Society

Area: B2 Life Sciences -- Biology

Date Submitted: 10/15/2014 11:36:10 AM

Date Approved: 11/12/2014 9:52:16 PM

1. Promote the understanding and appreciation of the methodologies of math or science as investigative tools and the limitations of mathematical or scientific endeavors

Already approved for B2.

2. Present mathematical or scientific knowledge in a historical perspective and the influences of math and science on the development of world civilizations, both past and present

Already approved for B2.

3. Apply inductive and deductive reasoning processes and explore fallacies and misconceptions in the mathematical or scientific areas

Already approved for B2.

4. Present the principles and concepts that form the foundations of living systems

Already approved for B2.

GE Committee response to your request have BIOL332: Cancer and Society added to **UDIGE: Upper Division Interdisciplinary GE**

Approved by 2014-2015 GE Committee.

BIOL 332 forwarded to GE Committee for review.

Request Submitted

Course: BIOL332 Cancer and Society

Area: UDIGE Upper Division Interdisciplinary GE Date Submitted: 10/15/2014 11:36:21 AM Date Approved: 11/12/2014 9:55:39 PM

1. Emphasize interdisciplinarity by integrating content, ideas, and approaches from two or more disciplines

Already approved for UDIGE.

2. Include substantive written work consisting of in-class writing as well as outside class writing of revised prose. Examples of appropriate written work include: short papers, long papers, term papers, lab reports, documentation, disciplinary-based letters and memos, and essays.

Already approved for UDIGE.

Approval Sheet

Course: BIOL 332

If your course has a General Education Component or involves Center affiliation, the Center will also sign off during the approval process.

Multiple Chair fields are available for cross-listed courses.

The CI program review process includes a report from the respective department/program on its progress toward accessibility requirement compliance. By signing below, I acknowledge the importance of incorporating accessibility in course design.

| | | |
|---|--|------|
| Program Chair | | |
| Signature | | Date |
| Program Chair | | |
| Signature | | Date |
| Program Chair | | |
| Signature | | Date |
| General Education Chair | | |
| Signature | | Date |
| Center for Intl Affairs Director | | |
| Signature | | Date |
| Center for Integrative Studies Director | | |
| Signature | | Date |
| Center for Multicultural Engagement Director | | |
| Signature | | Date |
| Center for Civic Engagement and Service Learning Director | | |
| Signature | | Date |
| Curriculum Chair | | |
| Signature | | Date |
| AVP | | |
| Signature | | Date |