

# NSM 12W: PEER-ASSISTED LEARNING BIO 26

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## In Workflow

1. BIO Committee Chair (kneitel@csus.edu)
2. BIO Chair (kneitel@csus.edu)
3. NSM College Committee Chair (mikkel.jensen@csus.edu)
4. NSM Dean (datwyler@csus.edu)
5. Academic Services (catalog@csus.edu)
6. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
7. Dean of Undergraduate (james.german@csus.edu; celena.showers@csus.edu)
8. Dean of Graduate (cnewsome@skymail.csus.edu)
9. Catalog Editor (torsetj@csus.edu)
10. Registrar's Office (w lindsey@csus.edu)
11. PeopleSoft (PeopleSoft@csus.edu)

## Approval Path

1. Wed, 20 Oct 2021 03:11:31 GMT  
Jamie Kneitel (kneitel): Approved for BIO Committee Chair
2. Wed, 20 Oct 2021 03:13:52 GMT  
Jamie Kneitel (kneitel): Approved for BIO Chair
3. Thu, 21 Oct 2021 01:57:46 GMT  
Thomas Krabacher (tsk): Rollback to BIO Committee Chair for NSM College Committee Chair
4. Wed, 10 Nov 2021 23:33:27 GMT  
Jamie Kneitel (kneitel): Approved for BIO Committee Chair
5. Wed, 10 Nov 2021 23:34:49 GMT  
Jamie Kneitel (kneitel): Approved for BIO Chair
6. Thu, 18 Nov 2021 00:13:14 GMT  
Mikkel Jensen (mikkel.jensen): Rollback to BIO Chair for NSM College Committee Chair
7. Thu, 18 Nov 2021 17:10:45 GMT  
Jamie Kneitel (kneitel): Rollback to BIO Committee Chair for BIO Chair
8. Fri, 19 Nov 2021 16:09:05 GMT  
Jamie Kneitel (kneitel): Rollback to Initiator
9. Sat, 20 Nov 2021 00:17:42 GMT  
Jamie Kneitel (kneitel): Approved for BIO Committee Chair
10. Sat, 20 Nov 2021 00:19:37 GMT  
Jamie Kneitel (kneitel): Approved for BIO Chair
11. Wed, 01 Dec 2021 23:18:08 GMT  
Mikkel Jensen (mikkel.jensen): Approved for NSM College Committee Chair
12. Wed, 01 Dec 2021 23:25:52 GMT  
Shannon Datwyler (datwyler): Approved for NSM Dean

## New Course Proposal

Date Submitted: Fri, 19 Nov 2021 17:51:04 GMT

### Viewing: NSM 12W : Peer-Assisted Learning BIO 26

Last edit: Wed, 01 Dec 2021 23:17:56 GMT

Changes proposed by: Jennifer Lundmark (101045083)

#### Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Jennifer Lundmark	lundmark@csus.edu	916-278-6659

#### Catalog Title:

Peer-Assisted Learning BIO 26

#### Class Schedule Title:

Peer-Assisted Learning BIO 26

#### Academic Group: (College)

NSM - Natural Sciences & Mathematics

**Academic Organization: (Department)**

Biological Sciences

**Will this course be offered through the College of Continuing Education (CCE)?**

No

**Catalog Year Effective:**

Fall 2022 (2022/2023 Catalog)

**Subject Area: (prefix)**

NSM - Natural Sciences and Mathematics

**Catalog Number: (course number)**

12W

**Course ID: (For administrative use only.)**

TBD

**Units:**

1

**Is the primary purpose of this change to update the term typically offered or the enforcement of prerequisites at registration?**

No

**In what term(s) will this course typically be offered?**

Fall, Spring

**Does this course require a room for its final exam?**

No, final exam does not require a room

**Does this course replace an existing experimental course?**

No

**This course complies with the credit hour policy:**

Yes

**Justification for course proposal:**

NSM 12W will provide students who are concurrently enrolled in BIO 26 with an opportunity to improve their understanding of content and facility with problem-solving, which should improve their performance in the course. In NSM 12W, small groups of students tackle instructor-designed problems with the support of a trained PAL facilitator. This model has been successfully used in math and science courses across the country over the past 20+ years with consistent success. Development and implementation of this proposed course has at least five years of monetary support from a federal grant (STEM4Equity); its existence after that time will be dependent on data related to student success, and if the course will continue, its budget will be absorbed by the existing PAL program.

**Course Description: (Not to exceed 80 words and language should conform to catalog copy.)**

NSM 12W Peer-Assisted Learning BIO 26. Discussion, 2 hours. Students concurrently enrolled in BIO 26 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a BIO 26 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in BIO 26.

**Are one or more field trips required with this course?**

No

**Fee Course?**

No

**Is this course designated as Service Learning?**

No

**Does this course require safety training?**

No

**Does this course require personal protective equipment (PPE)?**

No

**Does this course have prerequisites?**

No

**Does this course have corequisites?**

Yes

**Corequisite:**

BIO 26

**Corequisites Enforced at Registration?**

No

**Graded:**

Credit / No Credit

**Approval required for enrollment?**

No Approval Required

**Course Component(s) and Classification(s):**

Discussion

**Discussion Classification**

CS#07 - Fine Arts and Science Activity (K-factor=1.3 WTU per unit)

**Discussion Units**

1

**Is this a paired course?**

No

**Is this course crosslisted?**

No

**Can this course be repeated for credit?**

Yes

**How many times can the course be taken (not including first time passed)?**

2

**Total credits allowed (including first time passed)**

3

**Can the course be taken for credit more than once during the same term?**

No

**Description of the Expected Learning Outcomes: Describe outcomes using the following format: "Students will be able to: 1), 2), etc."**

Students will be able to:

- 1) Work collaboratively with others to find solutions to challenging problems in anatomy & physiology
- 2) Recognize effective strategies for learning anatomy & physiology
- 3) Assume greater responsibility for their own success in anatomy & physiology

**Attach a list of the required/recommended course readings and activities:**

NSM 12W syllabus Bio 26.doc

**Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above.**

Students will complete surveys about their own approach and attitudes towards learning anatomy &amp; physiology (pre and post) [EL #3]

Students enrolled in PALs will be evaluated by PAL Facilitators regarding their approach to problems [EL #2]

Attendance and participation of all enrolled students will be tracked by PAL facilitators and the instructor [EL #1]

**For whom is this course being developed?**

Minors in the Dept

Majors of other Depts

Is this course required in a degree program (major, minor, graduate degree, certificate?)

No

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?

No

Will there be any departments affected by this proposed course?

Yes

Indicate which department(s) will be affected by the proposed course:

Department(s)

Kinesiology

Health & Human Services

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.

I/we agree

## University Learning Goals

### Undergraduate Learning Goals:

Competence in the disciplines

Knowledge of human cultures and the physical and natural world

Integrative learning

Personal and social responsibility

Intellectual and practical skills

Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?

No

## GE Course and GE Goal(s)

Is this a General Education (GE) course or is it being considered for GE?

No

### Reviewer Comments:

**Thomas Krabacher (tsk) (Thu, 21 Oct 2021 01:57:46 GMT):** Rollback: The NSM CRC is rolling this back to you as requested by Shannon Datwyler. Please note -- the BIO 297A proposal was also rolled back at Shannon's request, but was sent to the department chair.

**Mikkel Jensen (mikkel.jensen) (Thu, 18 Nov 2021 00:13:14 GMT):** Rollback: Please make the following changes: 1) Please update the course justification to reflect the funding source (funded through a 5-year grant) which will cover the development, and indicate plans for continuing the course past the grant funding period, if applicable. 2) The Form A field "Indicate which department(s) will be affected by the proposed course" indicates Biological Sciences, but Biological Sciences should be removed as it is a PAL class for a course (BIO 26) which Biological Sciences majors do not take. Instead add the Department(s) whose students will take this course.

**Jamie Kneitel (kneitel) (Thu, 18 Nov 2021 17:10:45 GMT):** Rollback: Please see email.

**Jamie Kneitel (kneitel) (Fri, 19 Nov 2021 16:09:05 GMT):** Rollback: Please see email

Key: 14634