

BIOL M122: INDEPENDENT STUDY - BIOLOGY

Originator

bmilller

Co-Contributor(s)**Name(s)**

Johnson, Jana (jjohnson)

College

Moorpark College

Discipline (CB01A)

BIOL - Biology

Course Number (CB01B)

M122

Course Title (CB02)

Independent Study - Biology

Banner/Short Title

Independent Study - Biology

Credit Type

Credit

Start Term

Fall 2021

Formerly

BIOL M22A - Independent Studies in Biology

BIOL M22B - Independent Studies in Biology

Catalog Course Description

Allows independent study for students who wish to extend their knowledge of a particular area of Biology through research and study. Utilizes an approved independent project. Includes one-on-one work with instructor.

Additional Catalog Notes

Interested students should contact a Biology instructor for assistance in developing a contract for learning about a specific topic.

Taxonomy of Programs (TOP) Code (CB03)

0401.00 - Biology, General

Course Credit Status (CB04)

D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)

B (Transferable to CSU only)

Course Basic Skills Status (CB08)

N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)

E - Non-Occupational

Course Cooperative Work Experience Education Status (CB10)

N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)

Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)

N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)

Y - Not Applicable

Course Noncredit Category (CB22)

Y - Credit Course

Funding Agency Category (CB23)

Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)

1 - Program Applicable

General Education Status (CB25)

Y - Not Applicable

Support Course Status (CB26)

N - Course is not a support course

Field trips

Will not be required

Grading method

(L) Letter Graded

Alternate grading methods

(O) Student Option- Letter/Pass

(P) Pass/No Pass Grading

Does this course require an instructional materials fee?

No

Repeatable for Credit

No

Is this course part of a family?

No

Units and Hours

Carnegie Unit Override

No

In-Class

Lecture

Activity

Laboratory

Minimum Contact/In-Class Laboratory Hours

26.25

Maximum Contact/In-Class Laboratory Hours

157.5

Total in-Class**Total in-Class****Total Minimum Contact/In-Class Hours**

26.25

Total Maximum Contact/In-Class Hours

157.5

Outside-of-Class**Internship/Cooperative Work Experience****Paid****Unpaid****Total Outside-of-Class****Total Outside-of-Class****Minimum Outside-of-Class Hours**

26.25

Maximum Outside-of-Class Hours

157.5

Total Student Learning**Total Student Learning****Minimum Units (CB07)**

.5

Maximum Units (CB06)

3

Prerequisites

Completion of one course in Biology and instructor approval

Student Learning Outcomes (CSLOs)**Upon satisfactory completion of the course, students will be able to:**

- | | |
|---|---|
| 1 | demonstrate a deeper understanding of the biology discipline as specifically determined in the student-developed learning objectives in consultation with the instructor. |
|---|---|

Course Objectives**Upon satisfactory completion of the course, students will be able to:**

- | | |
|---|---|
| 1 | apply the knowledge acquired to other areas of the Biology discipline. |
| 2 | formulate statements designed to assess the applicability of their knowledge to other related topics. |
| 3 | analyze new information, practices or research in the Biology discipline and utilize those findings in further research or creative projects. |

Course Content**Lecture/Course Content**

Project content and specific topics will be determined by the student in consultation with the supervising faculty member.

Laboratory or Activity Content

Project content and specific topics will be determined by the student in consultation with the supervising faculty member.

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Written expression

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Essay exams

Individual projects

Objective exams

Projects

Participation

Reports/Papers/Journals

Skills demonstrations

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Distance Education

Laboratory activities

Observation

Describe specific examples of the methods the instructor will use:

Project content and specific topics will be determined by the student in consultation with the supervising faculty member.

Representative Course Assignments

Writing Assignments

projects to be determined in conversations between the instructor and the student.

development of project-related documents: essays, term projects, library research, and literature reviews.

Critical Thinking Assignments

projects to be determined in conversation between the instructor and the student.

Outside Assignments

Representative Outside Assignments

projects to be determined in conversation between the instructor and the student.

Articulation

Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
Allan Hancock College	BIOL 189	Independent Projects in Biology	1-3
Pasadena College	BIOL 20	Independent Study	2
Santa Barbara City College	BIOL 299	Independent Research in Biology	1-4

District General Education**A. Natural Sciences****B. Social and Behavioral Sciences****C. Humanities****D. Language and Rationality****E. Health and Physical Education/Kinesiology****F. Ethnic Studies/Gender Studies****Course is CSU transferable**

Yes

CSU Baccalaureate List effective term:

F1995

CSU GE-Breadth**Area A: English Language Communication and Critical Thinking****Area B: Scientific Inquiry and Quantitative Reasoning****Area C: Arts and Humanities****Area D: Social Sciences****Area E: Lifelong Learning and Self-Development****Area F: Ethnic Studies****CSU Graduation Requirement in U.S. History, Constitution and American Ideals:****IGETC****Area 1: English Communication****Area 2A: Mathematical Concepts & Quantitative Reasoning****Area 3: Arts and Humanities****Area 4: Social and Behavioral Sciences****Area 5: Physical and Biological Sciences****Area 6: Languages Other than English (LOTE)****Textbooks and Lab Manuals****Resource Type**

Other Resource Type

Description

Specific books, articles, films, etc. used will be determined by the supervising faculty member in consultation with the student..

Library Resources

Assignments requiring library resources

Research projects using the Library's print and online resources.

Sufficient Library Resources exist

Yes

Distance Education Addendum

Definitions

Distance Education Modalities

Hybrid (51%–99% online)

Hybrid (1%–50% online)

100% online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Regular Effective/Substantive Contact

Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	The faculty advisor may post discussion topics regarding the student project or the internship learning objectives and encourage dialog. These discussion topics may aim to probe and assess student knowledge and progress, or lead the student to explore new concepts and experiment with novel approaches to either problem solving or conquering the learning objectives.
E-mail	The faculty advisor and the student may utilize emails to communicate regularly about a variety of matters including but not limited to upcoming meetings, events, due dates, project details, etc. The student may also email the faculty advisor any documents about the project which will require an action on the part of the faculty advisor.
Face to Face (by student request; cannot be required)	The student may request face-to-face meetings with the advisor to discuss any issues of concern regarding either the learning outcomes of the project, the work environment, or obstacles that are hindering the student's progress. Additionally, the student may request a face-to-face meeting perhaps to demonstrate a skill that the student has learned, or the operation of a device that the student has built, or an art piece that the student has created.
Synchronous Dialog (e.g., online chat)	the student to discuss the student's learning objectives, have a dialogue about the student's progress, clarify expectations, or answer questions. The faculty advisor may also meet online with the student and the work site supervisor to discuss the student's contributions to the work place, and any areas of strength or concerns that would help the faculty advisor better guide the student's experience.

Video Conferencing

The faculty advisor and the student may utilize video conferencing for lessons, discussions, collaborations, or Q/A sessions. Video conferencing may also be utilized for student progress and student work assessment and evaluation where the student can illustrate and discuss the outcomes of the learning objectives.

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100% online Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
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Examinations

Hybrid (1%–50% online) Modality

Online
On campus

Hybrid (51%–99% online) Modality

Online
On campus

Primary Minimum Qualification

BIOLOGICAL SCIENCES

Review and Approval Dates

Department Chair

04/07/2021

Dean

04/16/2021

Technical Review

04/29/2021

Curriculum Committee

5/4/2021

DTRW-I

MM/DD/YYYY

Curriculum Committee

MM/DD/YYYY

Board

MM/DD/YYYY

CCCCO

11/12/2020

Control Number

CCC000452384

DOE/accreditation approval date

MM/DD/YYYY