

**New Credit Program Application
Long Form (CCC-501) and Short-Form (CCC-510)
Santa Rosa Junior College**

Date proposal created or last revised: April 19, 2019 (AL)

Proposed Certificate/Major Title: Biology

Projected Program Start Date (semester and year): Fall 2020

Contact Person and Title: Kristen Swinstrom

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Check one or more of the following (to check box, double click on the box and click "checked" option):

- 0.5 - 17.5 unit certificate, **not** seeking Chancellor's Office approval (local approval required)
- 12 – 17.5 unit certificate, seeking Chancellor's Office approval (recommended)
- 18 unit or more certificate (requires Chancellor's Office approval)
- 18 unit or more CTE major, non-transferable (no articulation required, but still requires Chancellor's Office approval)
- Transfer major (18 units or more) either CTE or Liberal Arts (articulation required, but still requires Chancellor's Office approval)
- AA-T or AS-T transfer major following Transfer Model Curriculum (TMC) template (requires Chancellor's Office approval)

For instructions, see page 2.

Preliminary Approval Signatures:

The signatures below indicate that **preliminary** approval has been given to submit the application and start curriculum development, as needed. The signatures below indicate that the proposed certificate or major is appropriate to mission, meets the needs of the community, meets SRJC standards for high quality, is feasible within existing resources or resource needs can be supported, and complies with all relevant Title 5 or Ed Code requirements.

Department Chair Signature: _____ **Date:** _____

Supervising Administrator: _____ **Date:** _____

Dean III Signature (if any): _____ **Date:** _____

SVPAAs Signature: _____ **Date:** _____

SVPAAs verification (initial): _____ EPCC Review Completed _____ AAC Review Completed

Application Date:



California Community Colleges

NEW CREDIT PROGRAM APPLICATION FORM

Biology

PROPOSED PROGRAM TITLE

Santa Rosa Junior College

COLLEGE

Sonoma County Junior College District

DISTRICT

Fall 2019

PROJECTED PROGRAM START DATE

Josh Adams

CONTACT PERSON

Dean, Business & Prof. Studies

TITLE

(707) 524-1731

PHONE NUMBER

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E-MAIL ADDRESS

GOAL(S) OF PROGRAM:
 CAREER TECHNICAL EDUCATION (CTE) TRANSFER OTHER
TYPE OF PROGRAM (SELECT ONLY ONE):
 A.A. DEGREE A.S. DEGREE AA-T DEGREE (for transfer)* AS-T DEGREE (for transfer)*
CERTIFICATE OF ACHIEVEMENT: 18+ semester (or 27+ quarter) units
 12-18 semester (or 18-27 quarter) units

* The AA-T and AS-T degrees fulfill the requirements of California Education Code sections 66745-66749, also known as the Student Transfer Achievement Reform Act. See special instructions provided [here](#).

Type of change requested: Check all that apply.

Replace Existing Degree
 Replace Existing Certificate of Achievement
 Add New Degree
 Add New Certificate of Achievement
 Delete Existing Degree from an approved credit program
 Delete Existing Certificate of Achievement from an approved credit program

Note: to check a box double click on the box and select the "checked" option.

PLANNING SUMMARY

Recommended T.O.P. Code	0401.00	Estimated FTE Faculty Workload	3
Units for Degree Major or Area of Emphasis	36-38	Number of New Faculty Positions	0
Total Units for Degree	60	Est. Cost, New Equipment	\$ 0
Required Units-Certificate	N/A	Cost of New/Remodeled Facility	\$ 0
Projected Annual Completers	11	Est. Cost, Library Acquisitions	\$ 0
Projected Net Annual Labor Demand (CTE)	75	When will this program undergo review as part of college's Program Evaluation Plan?	Month __ May ____ Year __ 2021 ____

Attachments required for this form:

- State Chancellor's Office signature page (generated by the curriculum office)
- Development Criteria Narrative & Documentation (with all attachments):
 - Labor/Job Market DATA (CTE only)
 - Employer Survey (CTE only)
 - Minutes of Key Meetings
 - Outlines of Record for all Required Courses
 - Transfer Documentation (if applicable)

Criteria A. Appropriateness to Mission

1. Statement of Program Goals and Objectives:

Upon successful completion of this program, the student will be able to:

1. Apply the scientific method to investigating and evaluating biological phenomenon and summarize results in written scientific format;
2. perform laboratory techniques, including microscopy, with a high level of expertise without assistance or instruction;
3. synthesize evolutionary mechanisms, trends, and history with biodiversity;
4. integrate the levels of biological organization including cell mechanisms, anatomy, physiology, genetics, ecology, and evolution;
5. investigate human interactions with all levels of biological processes emphasizing the principles of ecosystem, community, population ecology, and global human impacts;
6. apply knowledge of biological organisms and principles in advanced courses in order to transfer to four year institutions.

2. Catalog Description:

The Biology Associate in Science for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs.

Students will have to fulfill the following requirements to earn this degree:

Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:

a) The Intersegmental General Education Transfer Curriculum (IGETC); and

b) A minimum of 36 semester units as required for the Associate in Science for Transfer in Biology.

Obtainment of an overall minimum grade point average of 2.0.

Earn a grade of C or better in all courses required for the Associate in Science for Transfer in Biology.

3. Program Requirements:

See TMC template attached

List any special requirements in addition to above, such as work experience, internship, or examination: None

Unit Summary

- Total units to complete the major requirements: 36-38
- For associate degree majors, total units that double count as GE courses: 9
- For associate degree majors, total units minus the units that double count: 27-29
- For associate degree majors, additional units of "free" electives to bring the total to 60: 0-2

4. Background and Rationale:

This major is based on a Transfer Model Curriculum developed jointly by the California Community College System and the CSU system.

At Santa Rosa Junior College, faculty members with discipline expertise develop all certificates and majors. For AA-T and AS-T degrees, faculty members with appropriate expertise and the Articulation Officer determine which courses align with the C-ID descriptors. The Supervising Administrator(s) then review the application to assure that it aligns with Chancellor's Office criteria for approval and SRJC guidelines for financial feasibility and community need. The Majors & Certificates Review Committee reviews the application and suggests any changes to assure that all guidelines have been observed. The item is then placed on the Curriculum Review Committee agenda for approval, and when approved, is submitted for approval by the Board of Trustees.

Criteria B: Need

5. Enrollment and Completer Projections:

- number of sections of core courses to be offered annually: 13
- headcount of student annual enrollment in core courses: 264
- estimated completers at the end of the second year: 34
- estimated completers at the end of the fifth year: 85

6. Place of Program in Curriculum / Similar Programs:

This application aligns with a Transfer Model Curriculum but will not be replacing any existing majors.

This major shares coursework with existing majors: Biology, Environmental Studies, Natural Sciences, Nutrition & Dietetics

7. Similar Programs at Other Colleges in the Service Area:

Not required for TMC.

8. Labor Market Information & Analysis:

Not required for TMC.

9. Employer Survey:

Not required for TMC.

10. Explanation of Employer Relationship:

Not required for TMC.

11. List of Members of Advisory Committee Relationship:

Not required for TMC.

12. Recommendations of the Advisory Committee:

Not required for TMC.

Criteria C. Curriculum Standards

13. Sequence of Courses:

Please Specify: Recommended Sequence, OR Required Sequence

Semester	Course and Title	Units
1	CHEM 1A – General Chemistry	5
	MATH 25 – Precalculus Algebra	3
2	BIO 2.1 – Fundamentals of Biology (Cell and Molecular)	5
	CHEM 1B – General Chemistry	5
3	BIO 2.2 – Fundamentals of Biology (Evolution, Genetics, and Zoology)	5
	PHYS 20 – General Physics Lecture Part I	3
	PHYS 20L – General Physics Lab Part I	1
4	BIO 2.3 – Fundamentals of Biology (Botany and Ecology)	5
	PHYS 21 – General Physics Lecture Part II	3
	PHYS 21L – General Physics Lab Part II	1
	Recommended Course Sequence Total	36

14. Transfer Applicability:

Not required for TMC

Criteria D. Adequate Resources

15. Library and/or Learning Resources Plan:

Adequate resources already exist.

16. Facilities and Equipment Plan:

Adequate resources already exist.

17. Financial Support Plan:

Adequate resources already exist.

18. Faculty Support Plan:

Adequate resources already exist.

Criteria E. Compliance

19. Model Curriculum:

Yes, based on Transfer Model Curriculum.

20. Licensing or Accreditation Standards:

Not required for TMC.

21. Student Selection and Fees:

No special student selection process or fees apply.