

Course Description

A. COVER PAGE

Date of Submission (Please include Month, Day and Year)	
1. Course Title Science Lab Technician	9. Subject Area <input type="checkbox"/> History/Social Science <input type="checkbox"/> English <input type="checkbox"/> Mathematics <input checked="" type="checkbox"/> Laboratory Science <input type="checkbox"/> Language other than English <input type="checkbox"/> Visual & Performing Arts <input type="checkbox"/> Intro <input type="checkbox"/> Advanced <input type="checkbox"/> College Prep Elective
2. Transcript Title(s) / Abbreviation(s)	(Continued from previous row)
3. Transcript Course Code(s) / Number(s) SC6644 SC6645	
4. School Pioneer Valley High School	
5. District Santa Maria Joint Union High School District	10. Grade Level(s) for which this course is designed <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input checked="" type="checkbox"/> 11 <input checked="" type="checkbox"/> 12
6. City Santa Maria	
7. School / District Web Site www.smjuhsd.org	11. Seeking "Honors" Distinction? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8. School Course List Contact Name: Riccardo Magni Title/Position: Science Department Head Phone: (805) 922-1305 Ext.: *5411 E-mail: rmagni@smjuhsd.org	12. Unit Value <input type="checkbox"/> 0.5 (half year or semester equivalent) <input checked="" type="checkbox"/> 1.0 (one year equivalent) <input type="checkbox"/> 2.0 (two year equivalent) <input type="checkbox"/> Other: _____
13. Is this an Internet-based course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes", who is the provider? <input type="checkbox"/> UCCP <input type="checkbox"/> PASS/Cyber High <input type="checkbox"/> Other _____	

14. Complete outlines are not needed for courses that were previously approved by UC. If course was previously approved, indicate in which category it falls.

A course reinstated after removal within 3 years. Year removed from list?

Same course title? Yes No

If no, previous course title?

 An identical course approved at another school in same district. Which school?

Same course title? Yes No

If no, course title at other school?

 Year-long VPA course replacing two approved successive semester courses in the same discipline

Approved Advanced Placement (AP) or International Baccalaureate (IB) course

Approved UC College Prep (UCCP) Online course

Approved CDE Agricultural Education course

Approved P.A.S.S./Cyber High course

Approved ROP/C course. Name of ROP/C?

 Approved A.V.I.D. course

Approved C.A.R.T. course

Approved Project Lead the Way course

Other. Explain:

15. Is this course modeled after an UC-approved course from another school outside your district? Yes No

If so, which school(s)?

Course title at other school

16. Pre-Requisites

Teacher recommendation

17. Co-Requisites

18. Is this course a resubmission? Yes No

If yes, date(s) of previous submission?

Title of previous submission?

19. Brief Course Description

This course is for the advanced lab student. Students will be involved in preparing lab materials in advance for the teacher, as well as assisting the teacher and students during labs. This includes but is not limited to gathering materials, aliquoting solutions and supplies, creating dilutions, cutting or building materials, making solutions, repairing lab equipment, and reading lab procedures.

B. COURSE CONTENT

Please refer to instructions

20. Course Goals and/or Major Student Outcomes

Lab Technicians will:

- Be able to read a lab procedure and gather all of the necessary materials for the lab.
- Be able to use good lab safety when they are in the lab.
- Assist other students during the lab activity.

21. Course Objectives

Science Lab Technicians will:

- Accurately mass crystalline powders.
- Be able to follow a lab protocol to make a solution or dilution.
- Accurately setup water baths of varied temperatures.
- Neutralize acids and/or bases.
- Dispose of chemicals properly.

22. Course Outline

Students will learn some or all of the following lab techniques as a science lab technician:

- Distillation of water
- Solution preparation
- Dilution preparation
- Massing of crystalline solids
- Acid/base neutralization
- Making distilled water
- Using an autoclave
- Aliquot lab materials
- Reading lab protocols
- Making and pouring gels

- Using a gel box and comb
- Freezing DNA
- Growing bacterial colonies
- Incubating bacteria
- Reptile husbandry
- Repairing lab equipment
- Rearing and maintaining insect colonies
- Learn chemical disposal techniques
- Become familiar with an MSDS
- Maintain/clean/glassware, check glassware integrity before labs
- Demonstrate safe lab techniques during class
- Make nontoxic, non-corrosive solutions
- Assist special needs students with experimental procedures
- Assist the teacher with any other classroom duties

23. Texts & Supplemental Instructional Materials

24. Key Assignments

25. Instructional Methods and/or Strategies

26. Assessment Methods and/or Tools

C. HONORS COURSES ONLY

Please refer to instructions

27. Indicate how this honors course is different from the standard course.

D. OPTIONAL BACKGROUND INFORMATION

Please refer to instructions

28. Context for Course (optional)

29. History of Course Development (optional)