

Santa Rosa Junior College

Program Resource Planning Process

Water and Wastewater Treatment Technology 2016

1.1a Mission

See Applied Technology PRPP

1.1b Mission Alignment

See Applied Technology PRPP

1.1c Description

See Applied Technology PRPP

1.1d Hours of Office Operation and Service by Location

See Applied Technology PRPP

1.2 Program/Unit Context and Environmental Scan

See Applied Technology PRPP

2.1a Budget Needs

See Applied Technology PRPP

2.1b Budget Requests

Rank	Location	SP	M	Amount	Brief Rationale
0001	Petaluma	00	00	\$240.00	See Applied Technology PRPP

2.2a Current Classified Positions

Position	Hr/Wk	Mo/Yr	Job Duties
See Applied Technology PRPP	0.00	0.00	

2.2b Current Management/Confidential Positions

Position	Hr/Wk	Mo/Yr	Job Duties
See Applied Technology PRPP	0.00	0.00	

2.2c Current STNC/Student Worker Positions

Position	Hr/Wk	Mo/Yr	Job Duties
See Applied Technology PRPP	0.00	0.00	

2.2d Adequacy and Effectiveness of Staffing

See Applied Technology PRPP

2.2e Classified, STNC, Management Staffing Requests

Rank	Location	SP	M	Current Title	Proposed Title	Type
0000	ALL	00	00	See Applied Technology PRPP		Classified

2.3a Current Contract Faculty Positions

Position	Description
See Applied Technology PRPP	

2.3b Full-Time and Part-Time Ratios

Discipline	FTEF Reg	% Reg Load	FTEF Adj	% Adj Load	Description
See Applied Technology PRPP	0.0000	0.0000	0.4000	100.0000	

2.3c Faculty Within Retirement Range

See Applied Technology PRPP

2.3d Analysis of Faculty Staffing Needs and Rationale to Support Requests

See Applied Technology PRPP

2.3e Faculty Staffing Requests

Rank	Location	SP	M	Discipline	SLO Assessment Rationale
0001	Petaluma	00	00	See Applied Technology PRPP	

2.4b Rationale for Instructional and Non-Instructional Equipment, Technology, and Software

Rationale for Instructional Equipment

Equipment acquisition is based on instructor rationale and justification as well as advisory board recommendations. Consequently, instructional equipment not only meets the needs of the instructional program, but also addresses recommendations from industry and the community at-large.

Water Utility Program

Both water and wastewater treatment technology is very dependent upon the availability of reliable computer technology and science laboratory equipment.

ENVT104, Water Laboratory Chemistry, requires specialized equipment for training in instrument calibration and coliform bacteria testing. See 2.4c.

ENVT110, Water Treatment Plant Operator, ENVT111, Water Distribution Operator, and ENVT220, Wastewater Treatment Operator require specialized equipment for demonstration purposes that are also included in 2.4c.

In 2011-12, budget was spent on acquiring instructional equipment for the water program laboratory for the above courses. Additional funds are being requested for 2012-13 to replenish expended or broken laboratory testing materials.

Wastewater Certificate

In order to provide reliable and current laboratory equipment for this new program, \$5,000 is being requested.

2.4c Instructional Equipment and Software Requests

Rank	Location	SP	M	Item Description	Qty	Cost Each	Total Cost	Requestor	Room/Space	Contact
0001	Petaluma	00	00	See Applied Technology PRPP	1	\$370.00	\$370.00	MJ Oliveri	Call Hall	Chudnofsky

2.4d Non-Instructional Equipment, Software, and Technology Requests

Rank	Location	SP	M	Item Description	Qty	Cost Each	Total Cost	Requestor	Room/Space	Contact
0000	Petaluma	00	00	See Applied Technology PRPP	0	\$0.00	\$0.00	None		

2.5a Minor Facilities Requests

Rank	Location	SP	M	Time Frame	Building	Room Number	Est. Cost	Description
0000	Petaluma	00	00	3+ Yr	See Applied Technology PRPP		\$0.00	No Need at this time

2.5b Analysis of Existing Facilities

See Applied Technology PRPP

3.1 Develop Financial Resources

See Applied Technology PRPP

3.2 Serve our Diverse Communities

See Applied Technology PRPP

3.3 Cultivate a Healthy Organization

See Applied Technology PRPP

3.4 Safety and Emergency Preparedness

See Applied Technology PRPP

3.5 Establish a Culture of Sustainability

See Applied Technology PRPP

4.1a Course Student Learning Outcomes Assessment

Thus section NOT updated 2016

Course Level Student Learning Outcomes

Current Water Courses

- ENVT 101:Introduction to Water Careers
- ENVT102:Math Methods for Water Treatment
- ENVT103:Water Sciences
- ENVT104:Chemistry & Lab Principles for Drinking Water
- ENVT110:Water Treatment Plant Operator
 - ENVT111:Water Distribution System Operator
 - Wastewater Treatment now incorporated into new WW Program
 - ENVT 220:Wastewater Treatment Plant Operator(now divided into ENVT 120 and ENVT 121)
 - ENVT 230:Industrial Waste Pretreatment Inspector (now an elective with WW program (now ENVT 125)
 - ENVT 235:Wastewater Chemistry :Laboratory (now ENVT 122)

New Wastewater Certificate Program courses:

- ENVT 120: Wastewater Treatment 1
- ENVT 121: Wastewater Treatment 2
- ENVT 122: Wastewater Chemistry
- ENVT 112: Math Methods for Wastewater Treatment
- ENVT 123: Instrumentation and Controls (SCADA)
- ENVT 124: Pumps

All SLOs are now current pending approval of the new wastewater curriculum.

4.1b Program Student Learning Outcomes Assessment

This section NOT updated 2016

Program Level Student Learning Outcomes

A program level SLO for Environmental Technology has been developed and was reviewed by the Advisory Committee at their meeting in Fall 2011.

4.1c Student Learning Outcomes Reporting

Type	Name	Student Assessment Implemented	Assessment Results Analyzed	Change Implemented
Course	ENVT101 Intro to Water Careers	N/A	N/A	N/A
Course	ENVT102 Math Methods for Water	N/A	N/A	N/A
Course	ENVT103 Water Sciences	N/A	N/A	N/A
Course	ENVT104 Water LAb Chemistry	N/A	N/A	N/A
Course	ENVT110 Water Treatmnt Opr	N/A	N/A	N/A
Course	ENVT111 Water Dist. Operator	N/A	N/A	N/A

4.2a Key Courses or Services that address Institutional Outcomes

Course/Service	1a	1b	1c	2a	2b	2c	2d	3a	3b	4a	4b	5	6a	6b	6c	7
WRT/ENVT 101 Introduction to Water Caree				X			X	X	X	X	X	X	X			
WRT/ENVT 101 Introduction to Water Caree				X			X	X	X	X	X	X	X			
WRT/ENVT 102 Math Methods for Operators	X	X	X	X	X		X	X	X	X	X	X				
WRT/ENVT 103 Introduction to Water Scien	X	X	X	X	X		X	X		X	X	X				
WRT/ENVT 104 Chem Lab Proc - Water	X	X	X	X	X		X	X	X	X	X	X				X

WRT/ENVT 110 Water Treatment Operator	X	X	X	X	X		X	X	X	X	X	X					X
WRT/ENVT 111 Water Distribution Operator	X	X	X	X	X		X	X	X	X	X						X
WWTR 112 Math Methods for Wastewater Trt	X	X	X	X	X		X	X	X	X	X	X					X
WWTR 120 Wastewater Treatment 1	X	X	X	X	X		X	X	X	X	X	X					X
WWTR 121 Wastewater Treatment 2	X	X	X	X	X			X	X	X	X	X					X
WWTR 122 Wastewater Chemistry	X	X	X	X	X		X	X	X	X	X	X					X
WWTR 123 Instrumentation/Contro ls	X	X	X	X	X		X	X	X	X	X	X					X
WWTR 124 Pumps	X	X	X	X	X		X	X	X	X	X	X					X
WWTR 125 Industrial Waste Pretreatment	X	X	X	X	X		X	X	X	X	X	X					X

4.2b Narrative (Optional)

5.0 Performance Measures

See Applied Technology PRPP

5.1 Effective Class Schedule: Course Offerings, Times, Locations, and Delivery Modes (annual)

See Applied Technology PRPP

5.2a Enrollment Efficiency

See Applied Technology PRPP

5.2b Average Class Size

See Applied Technology PRPP

5.3 Instructional Productivity

See Applied Technology PRPP

5.4 Curriculum Currency

See Applied Technology PRPP

5.5 Successful Program Completion

See Applied Technology PRPP

5.6 Student Success

See Applied Technology PRPP

5.7 Student Access

See Applied Technology PRPP

5.8 Curriculum Offered Within Reasonable Time Frame

See Applied Technology PRPP

5.9a Curriculum Responsiveness

See Applied Technology PRPP

5.9b Alignment with High Schools (Tech-Prep ONLY)

See Applied Technology PRPP

5.10 Alignment with Transfer Institutions (Transfer Majors ONLY)

See Applied Technology PRPP

5.11a Labor Market Demand (Occupational Programs ONLY)

See Applied Technology PRPP

5.11b Academic Standards

See Applied Technology PRPP

6.1 Progress and Accomplishments Since Last Program/Unit Review

Rank	Location	SP	M	Goal	Objective	Time Frame	Progress to Date
0000	ALL	00	00	See Applied Technology PRPP			

6.2a Program/Unit Conclusions

Location	Program/Unit Conclusions
ALL	See Applied Technology PRPP

6.2b PRPP Editor Feedback - Optional

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6.3a Annual Unit Plan

Rank	Location	SP	M	Goal	Objective	Time Frame	Resources Required
0000	ALL	00	00	See Applied Technology PRPP			