

**Program Name**

Chemistry

**Plan Name**

Sustaining Drop-in Tutoring Tables for Chemistry

**Plan Motivation**

Institutional Objective II.1. Increase successful course completion and student retention in comparison to fall 2010 rates

Institutional Objective I.1. Increase the diversity of the student population in comparison to fall 2010 proportions

Institutional Objective I.3. Secure funding for the facility priorities identified in the 2011 MiraCosta Community College District Comprehensive Master Plan

Institutional Objective II.3. Increase the rates of students' successful completion of degrees, certificates and transfer-readiness in comparison to the 2010-2011 rates

Program Performance

Program Curriculum

To support chemistry students, including those who lack basic skills in math and English through drop-in tutoring (no appt necessary). To improve the success and retention rates of minority students with timely and effective help.

**Plan Status**

Program began in Spring 2010, has expanded from 4 hrs (OC only) to 16 hrs at OC and 8 at SEC to date using BSI funding. Over 1000 students have been served and demand continues to grow. To continue this program after Spring 2012, institutional funds are required to make it a permanent program. If institutional funds are not granted, this program will go away! This program is also a vital element to our CMP vision of having a Chemistry Resource Center facility (space) within the confines of the chemistry department.

**Responsibilities**

Pierre Goueth and Theresa Bolanos.

**Milestone(s), Deliverable(s), and Expected Completion Date.**

This plan is ongoing and will not have a completion date. However, it will be reviewed on an annual basis to assess its effectiveness and the number of students served. This program was started 2 years ago and has tripled the total number of students it serves. We will evaluate tutoring hours and assess need for additional hours at OC where the program is 2 years old. We expect to double the the chemsity drop-in hours, at SEC

[Indicate the Expected Completion Date of this Plan]

**Plan Resources**

Equipment/supplies not needed

Technology not needed

Facilities needed

Staff needed

Curriculum not needed

**Progress as of this Program Review**

[Enter a percent complete of this plan as of this Program Review.]

This program has not been funded through program review and therefore its funding has not have any effect on it. However, we have described its impact on the number of students who have been served by program since its inception in Spring 2010 and we can say from the number of students served that it fills a need among our students.

**Updates to the Comprehensive Master Plan**

Ch 4. Institutional Goal II. MiraCosta Community College District will become the college where students have the highest likelihood of success.

Ch 3. Support of Learning

Ch 3. Student Services

<b>Program Name</b>
Chemistry
<b>Plan Name</b>
Chemistry Full time position
<b>Plan Motivation</b>
Institutional Objective II.3. Increase the rates of students' successful completion of degrees, certificates and transfer-readiness in comparison to the 2010-2011 rates
Institutional Objective II.1. Increase successful course completion and student retention in comparison to fall 2010 rates
[Identify a Secondary Institutional Objective from the Strategic Plan.]
[Identify a Secondary Institutional Objective from the Strategic Plan.]
<b>Program Resources</b>
[Identify a Secondary section of the Program Review that motivates this plan.]
The total FTEF for Chemistry and Physical Science in Fall 2011 is 12.2 and the FT faculty/FTEF percentage is 40.9 %. When reassigned time is included, this ratio falls to 34.4% with another 1.65 taught overload by fulltime.
<b>Plan Status</b>
We have hired our last full time instructor 3 years ago and since the the program has increased its FTEF by more than 30%. We are currently at 12.2 FTEF with 5 full time instructors which is corresponds toa FT faculty/FTEF of 40.9% when reassigned time is added this ratio will go down to 34.4%. this reassignments will not change significantly in the near future as one is for the department chair and the other is for the co-chairmanship of the CMP and Planning and Budget from one of our faculty. The plan is still in its infancy as the hiring process depends on the number of positions that will be allowed for growth this coming year.
<b>Responsibilities</b>
Pierre Goueth
<b>Milestone(s), Deliverable(s), and Expected Completion Date.</b>
We expect to hire a full time faculty for the fall semester 2012.
Fall 2012
<b>Plan Resources</b>
Equipment/supplies not needed
Technology not needed
Facilities not needed
Faculty needed
Curriculum not needed
<b>Progress as of this Program Review</b>
0
Chemistry courses are required for virtually all science and engineering transfer programs, nursing and other allied health transfer programs, and for some CTE certificates as well. As the number of students in these programs has increased, the number of chemistry sections has grown at a phenomenal rate: a 30% increase in chemistry FTEF in just three years, from Fall 2009, when the chemistry program last hired a full time faculty.
<b>Updates to the Comprehensive Master Plan</b>
Ch 3. Support of Learning
Ch 3. Instructional Disciplines
Ch 4. Institutional Goal II. MiraCosta Community College District will become the college where students have the highest likelihood of success.

**Program Name**

Chemistry

**Plan Name**

Laboratory Instrumentation

**Plan Motivation**

Institutional Objective II.1. Increase successful course completion and student retention in comparison to fall 2010 rates

Institutional Objective II.3. Increase the rates of students' successful completion of degrees, certificates and transfer-readiness in comparison to the 2010-2011 rates

[Identify a Secondary Institutional Objective from the Strategic Plan.]

[Identify a Secondary Institutional Objective from the Strategic Plan.]

Program Resources

Program Curriculum

Incorporation of advanced instrumentation is required to meet the discipline norms for Chemistry Programs in 2-year Colleges. The majority of community colleges have already incorporated such instrumentation into their curriculum.

**Plan Status**

Previous Program Reviews have expressed this instrumentation need, and the incorporation of advanced instrumentation is compelled by the department's need to replace old equipment, acquire instrumentation that reflects advances in technology, and provide current instrumentation knowledge for our graduates in the market place. If this need is not addressed expeditiously, our curriculum might become outdated and hurt our student's competitiveness at the next level.

**Responsibilities**

Theresa Bolanos and Pierre Goueth

**Milestone(s), Deliverable(s), and Expected Completion Date.**

We expected to acquire new instrumentation (UV-VIS, NMR, Mass Spectrometer, HPLC) by Fall 2013. Additionally, we have submitted equipment requests for replacement of our only explosion-proof refrigerator, top-loading balances, and mini Gas Chromatographs.

Fall 2013

**Plan Resources**

Equipment/supplies needed

Technology needed

Facilities not needed

Personnel not needed

Curriculum not needed

**Progress as of this Program Review**

0

This request represents a crucial need for our department, and reflects previous program review discussions. We view this request as our official request for the acquisition of new instrumentation.

**Updates to the Comprehensive Master Plan**

Ch 4. Institutional Goal I. MiraCosta Community College District will become a vanguard educational institution.

Ch 4. Institutional Goal II. MiraCosta Community College District will become the college where students have the highest likelihood of success.

Ch 3. Support of Learning

**Program Name**

Chemistry

**Plan Name**

Chemistry Offering Growth at SEC

**Plan Motivation**

Institutional Objective II.3. Increase the rates of students' successful completion of degrees, certificates and transfer-readiness in comparison to the 2010-2011 rates

Institutional Objective V.1. Increase the two-year high school capture rate in comparison to the fall 2010 rate.

Institutional Objective I.1. Increase the diversity of the student population in comparison to fall 2010 proportions

Institutional Objective I.3. Secure funding for the facility priorities identified in the 2011 MiraCosta Community College District Comprehensive Master Plan

**Program Resources**

[Identify a Secondary section of the Program Review that motivates this plan.]

Plan desires to expand our chemistry offerings at SEC by acquiring additional laboratory space (facility request). Current usage of the biological laboratory by the chemistry department is limited due to high demand in both programs.

**Plan Status**

Our departmental goal of offering all chemistry courses (major and nonmajors) at SEC has been documented in previous programs reviews and in the Master Plan. To date, we have offered minimal majors courses, due to lack of laboratory space. We desire to offer core courses each semester, but are unable to do so presently. Obtaining additional lab space for a minimum of 6 weekly hrs/semester would assist the department's efforts.

**Responsibilities**

Theresa Bolanos and Pierre Goueth

**Milestone(s), Deliverable(s), and Expected Completion Date.**

Starting in Fall 2012, we hope to add 6 weekly laboratory hours per semester of chemistry to our SEC offerings.

Summer 2021

**Plan Resources**

Equipment/supplies not needed

[Technology needs]

Facilities needed

Personnel not needed

Curriculum not needed

**Progress as of this Program Review**

0

This request represents a crucial need for our department, and reflects previous program review discussions. We view this request as our official request for the acquisition of additional time in the SEC science laboratory.

**Updates to the Comprehensive Master Plan**

o Changes to CMP. Most will choose this option since we do not expect to update CMP regularly.

[For tracking, indicate whether this plan will lead to an update of the CMP and which section(s).]

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**Program Name**

[Select your program name]

**Plan Name**

[Identify your plan with a unique title]

**Plan Motivation**

[Identify the Primary Institutional Objective from the Strategic Plan (SP) that motivates this plan. Objectives are based on broader Institutional Goals.]

[Identify a Secondary Institutional Objective from the Strategic Plan.]

[Identify a Secondary Institutional Objective from the Strategic Plan.]

[Identify a Secondary Institutional Objective from the Strategic Plan.]

[Identify the Primary section of the Program Review that motivates this plan.]

[Identify a Secondary section of the Program Review that motivates this plan.]

[Briefly summarize how the Strategic Plan and/or data and analysis from Program Review motivate this plan.]

**Plan Status**

[To what extent and to what degree has the development of the program met the expectations for program growth specified in the college's master planning documents (at the Oceanside, San Elijo, CLC, and Online sites)?]

**Responsibilities**

[Identify responsible individuals within the program and any partnering individuals/programs.]

**Milestone(s), Deliverable(s), and Expected Completion Date.**

[Identify the products/outcomes of this plan (deliverables) and when those will be accomplished (milestones).]

[Indicate the Expected Completion Date of this Plan]

**Plan Resources**

[Equipment and/or supply needs]

[Technology needs]

[Facility needs]

[Personnel needs]

[Curriculum needs]

**Progress as of this Program Review**

[Enter a percent complete of this plan as of this Program Review.]

[What progress has the program made in addressing the recommendations adopted in prior reviews of the program? To what extent has the program's development plan been achieved? To what extent has such achievement improved the program? Describe the effect any approved funding requests from prior program review cycles had on your program.]

**Updates to the Comprehensive Master Plan**

[For tracking, indicate whether this plan will lead to an update of the CMP and which section(s).]

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