**Unit Goal Revisions**

**2016 - 2017**

Every two years, during spring semester, programs/departments/service units are asked to develop Unit Strategic Plans. These plans need to be closely aligned with the Institutional Action Priorities, the College’s Long Range Goals, and the College’s five year strategic plan. The Strategic Plans incorporate and reflect the operation of that unit at all campuses and instructional sites. Each unit’s budget needs to reflect the fiscal implications associated with the unit’s identified goals and objectives.

Following the first year each unit submits a goal progress report and revises their unit goals for the second year.

**Name of Program/Department: Math, Engineering, & Science Division**

**2015-2016 Accomplishments:**

1. **1 projection unit, screen, and computer was purchased and installed for Math class room. This equipment has proved to be very successful in teaching our Math classes, with good results and feedback from our students.**

**Revised Unit Goals (plans for the unit for the second year of the two year plan):**

1. **Objectives – the activities through which the goal will be achieved. Each Unit Goal should have at least one objective.**
2. **Method of Assessment – how the unit will determine if the objective has been met.**
3. **Additional Funding Requests – provide an estimate of the cost of achieving the objective. Also, include a description of how these funds will be used to accomplish the objective.**

**Revised Unit** Goals

**Goal 1: Maintain classrooms, Chemistry and Physics Labs with up-to-date equipment and faculty with up-to-date computers, document cameras, projector untis, hardware and software in order to provide quality instruction.**

1. **Objectives**
2. **Relocate the Physics Lab from the current location at CH 221 to CH 209, to bring the Physics Lab up to date with the state-of –the-art equipment.**
3. **Continue to upgrade computers being used by full-time Faculty members.**
4. **Add 1 projection unit, including computer, screen and document camera for CH 211, Chemistry classroom and CH 217, Physics classroom.**
5. **Purchase needed Chemistry Equipment from Vernier**
6. **Method of Assessment**
7. **Coordinate with the Dean of Legal Services and Buildings to see that the Physics Lab construction goes as planned. Monitor the purchase and installation of hardware and software to ensure currency.**
8. **Obtain feedback and data from faculty regarding the use and currency of instructional equipment used in lecture classrooms as well as faculties’ offices.**
9. **Monitor the purchase and installation of equipment, while also obtaining feedback from the faculty using the equipment for instruction.**
10. **Monitor the purchase and installation of equipment, while also obtaining feedback from the faculty using the equipment for instruction.**
11. Additional Funding Requests
12. This is a major expense and the conservative estimate is around $70,000.00
13. Funding estimate to purchase computers for objective 1b: (Includes Biology and Math instructors. )
 10 units @ $1,000 each = $10,000.
14. Funding estimate to purchase 2 projection units, including computers, screens, and document cameras for CH 211 and CH 217 objective 1c: 2 document cameras @$1,675 each. 2 projection units with screens @ 1,750.00 each.

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| 1. CHEM Equipment Request- Vernier
 |  | 24 Students (1 Station for every 4 students) |
|  |  |  |  |  |  |  |
| Item Number | Description | Price | Qty | Extd Price | Course | Needed For |
| LABQ2 | LabQuest 2 Interface | $329 | 6 | $1,974 | ALL | General Data Collection Interface |
| PH-BTA | pH Sensor | $79 | 6 | $474 | CHM 111-112 | pH Meter for Acid-Base (111) and Equilibrium Labs (112) |
| PS400-BTA | Pressure Sensor 400 | $189 | 6 | $1,134 | CHM 111-112 | Gas Laws (111), Clausius Clapeyron (112) |
| VP-BTA | Voltage Probe | $12 | 6 | $72 | CHM 112 | Electrochemistry (112) |
| VSP-UV | UV-VIS | $1,999 | 1 | $1,999 | ALL | Beers Law (111), Kinetics, Thermodynamics (112), Sample Characterization (221, 222) |
| GC2-MINI | Mini Gas Chromatograph | $2,289 | 1 | $2,289 | CHM 221-222 | Reaction Thermodynamics (CHM 221), Sample Characterization (221, 222) |
| CHEM-POL | Polarimeter | $499 | 1 | $499 | CHM 221-222 | Reaction Kinetics, Stereochemistry (221), Carbohydrate Chemistry (222) |
| VDC-BTD | Drop Counter | $99 | 6 | $594 | CHM 112 | Standardizes titration for better accuracy in equilibrium lab (112) |
| ORP-BTA | ORP Sensor | $81 | 6 | $486 |  | Oxidation Reduction potential sensor for REDOX titrations (112) |
| **Total with estimated tax** |  **$10,199.29** |  |  |  |  |  |