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## Planning Report - 201

# Science - Physical Sciences

| Unit Goal                                | Planned Action                           | EMP Strategic Goal                       |
|--|--|--|
| ENHANCE THE MAJORS CHEMISTRY/BIOCHEMISTR | Hire Tenure-track Biochemistry faculty   |  |
| ENHANCE THE MAJORS CHEMISTRY/BIOCHEMISTR | Hire a tenure-Track Inorganic Faculty    | Objective 1.1.1 Effective programs and s |
| ENHANCE THE MAJORS CHEMISTRY/BIOCHEMISTR | SG 3.4 Enhance curriculum vitality, viab |  |
| ENHANCE THE MAJORS CHEMISTRY/BIOCHEMISTR | Objective 1.1.1 Effective programs and s |  |
| ENHANCE THE MAJORS CHEMISTRY/BIOCHEMISTR | Objective 3.1.1 Create & promote roadmap |  |

### Unit Goal

| ENHANCE THE MAJORS CHEMISTRY/BIOCHEMISTR |   |
|--|---|
| PROVIDE A FULL DESCRIPTION OF THE GOAL   |   |
| Unit Goal                                | ENHANCE THE MAJORS CHEMISTRY/BIOCHEMISTRY PROGRAMS  |
| Goal Number                              | 1   |
| Description of the Goal                  | This Unit Goal describes the creation of a new course in Biochemistry. The creation of a Biochemistry course will necessitate the hiring of a new full-time faculty member who possesses an advanced Biochemistry degree. This faculty member, in light of being trained in both biology and chemistry will be able to supplement the curricula of both the Biology and Chemistry. Additionally, this faculty could also teach pharmacology classes for the Dental Hygiene Division. Thus this Goal fulfills many of the SMART goals outlined by the college. This Biochemistry course fills a specific gap in the Chemistry Divisio■ s offerings and would serve a specific cohort of students intending to transfer to higher level university courses. Beginning Spring semester 2016, West student's wishing to pursue careers in chemistry or to fulfill their pre-requisites for transfer to university, will be offered not only Chemistry 211 and 212, but also Bio-chemistry 221 ! |
| Goal Initiation Year (YYYY)              | 2016  |
| Goal Timeline                            | Less than 1 year  |
| Goal Current Priority                    | 1   |

|  |   |
|--|---|
| Describe the primary measurable objective for this goal. This is the measure that will assess the degree to which the goal has been met. | 1. an increase in Student enrollment both in chemistry and in the biological sciences -Majors Bio 6 and 7, Anatomy1 , microbiology 20 and physio;ogy1 courses.<br>2. An increase in student success by fulfilling many of the College ILOs, and PLOs.<br>3. Studentslearn critical thinking skills,and quantitative reasoning. Additionally, students achieve technological competence<br>4. Students who would have gone to take chem 221 and those who wish to take all organic sequence 211, 212, and 221, now can stay at WEST; they, then become our students for all the advanced science courses we offer. THAT IS MEASURABLE! |
| Goal Status  | New   |
| DESCRIBE THE NEED THIS GOAL ADDRESSES  |   |
| What issues, problems, or opportunities identified in your Program Review will this Goal address?  | RETENTION OF STUDENTS   |
| What SLO assessment / reflection will this Goal address?   | ALL   |
| WITH WHICH EDUCATIONAL MASTER PLAN   |   |
| STRATEGIC DIRECTIONS OR STRATEGIC GOALS  |   |
| DOES THIS UNIT GOAL ALIGN?   |   |
| AT LEAST 1 DIRECTION/GOAL MUST BE CHOSEN   |   |
| USE THE 'LINK' BOX ABOVE TO LINK GOALS.  |   |
| EMP Strategic Direction 1: Dedication to Learning  | Yes   |
| Goal 1.1: Improve student achievement, both overall & among historically lower-achieving groups.   | Yes   |
| Goal 1.2: Create a culture in which faculty develop & apply expertise in proven, effective learner-centered teaching strategies.         | No  |
| Goal 1.3: Foster ethical & affective development as well as cognitive development in all student populations.                            | Yes   |
| Goal 1.4: Inspire & increase the rate of faculty, staff, & administrators' involvement in professional learning activities.              | Yes   |
| EMP Strategic Direction 2: Culture of Continuous Improvement   | No  |
| Goal 2.1: Strengthen the processes for assessment & improvement of student learning outcomes & service area outcomes.                    | Yes   |
| Goal 2.2: Systematize the evaluation & improvement of West's effectiveness, focusing on planning & resource allocation processes.        | No  |
| Goal 2.3: Exercise financial stewardship that ensures fiscal stability while supporting educational excellence & the College mission.    | No  |
| Goal 2.4: Enhance & maintain facilities & technology to promote effective teaching & learning.   | No  |
| EMP Strategic Direction 3: Programs and Services Responsive to Student Needs   | No  |
| Goal 3.1: Create clear completion pathways.  | No  |

|  |     |
|--|-----|
| Goal 3.2: Develop & implement systematic services to help at-risk students identify goals early  | No  |
| Goal 3.3: Prepare students to enter a competitive workforce.   | No  |
| Goal 3.4: Enhance curriculum vitality, viability & relevance.  | No  |
| EMP Strategic Direction 4: Collaboration, Engagement, and Respect  | No  |
| Goal 4.1: Be collegial.  | No  |
| Goal 4.2: Eliminate organizational silos.  | No  |
| Goal 4.3: Celebrate the achievements of our entire community.  | Yes |
| EMP Strategic Direction 5: Connections with Communities  | No  |
| Goal 5.1: Forge effective alliances with local schools, organization & individuals.  | No  |
| Goal 5.2: Open the College to the world.   | Yes |
| .  |     |
| .  |     |
| PLEASE COMPLETE ONE OF THE FOLLOWING   |     |
| SETS OF QUESTIONS DEPENDING ON THE   |     |
| STATUS OF THIS GOAL  |     |
| 1) EVALUATION OF "IN PROGRESS" GOAL  |     |
| *****  |     |
| Estimate the % completion of this goal   | n/a |
| Describe the successes has the division/program/service had to date in the accomplishment of this goal.  | n/a |
| Describe the challenges has the division/program/service had to date in the accomplishment of this goal.   | N/A |
| 2) EVALUATION OF "MODIFIED" GOAL   |     |
| *****  |     |
| Why was the goal modified?   | N/A |
| 3) EVALUATION OF "COMPLETED" GOAL  |     |
| *****  |     |
| when was work on the goal completed? (year)  | N/A |
| Describe what was done to complete the goal.   | n/a |
| Evaluate the effectiveness of implementing the goal. Describe the impact on the division/program/service and on student success that completion of the goal has had. | N/A |
| What would the division/program/service do differently in the future based on the evaluation of the success in implementing this goal?                               | N/A |

|   |     |
|---|-----|
| Will completion of this goal lead to developing another goal? If so, describe the new goal. | N/A |
|---|-----|

| Linked Planning Objects |                    |  |                  |
|-------------------------|--------------------|--|------------------|
| Link Type               | Planning Object    | Planning Element                         | User Description |
| Internal Link           | Planned Action     | Hire Tenure-track Biochemistry faculty   |                  |
| Internal Link           | Planned Action     | Hire a tenure-Track Inorganic Faculty    |                  |
| Institutional Link      | EMP Strategic Goal | SG 3.4 Enhance curriculum vitality, viab |                  |
| Institutional Link      | EMP Objective      | Objective 1.1.1 Effective programs and s |                  |
| Institutional Link      | EMP Objective      | Objective 3.1.1 Create & promote roadmap |                  |

## Planned Action

| Hire Tenure-track Biochemistry faculty   |  |
|--|--|
| PROVIDE BASIC INFORMATION FOR  |  |
| EACH PLANNED ACTION  | Creation of Biochemistry Course within the Chemistry Division  |
| Action Number  | 1  |
| Provide a description of this action. Include the critical steps required to accomplish this action. | <p>This action describes the hiring of a Biochemist who would oversee the establishment of Biochemistry Program that serves the needs of our division in particular but also could serve in Allied Health and Dental hygiene Divisions. Thus, students wishing topursue careers in Chemistry, Biology, and professional health science careers would be the beneficiaries of such a course. It would give students both comprehensive theoretical and practical training in biochemistry via lecture and laboratory portions. This course could be used by the student to transfer into the UC and CSU system as chemistry majors. The steps to this planned action are:</p> <ol style="list-style-type: none"> <li>1. Creation of a one-semester biochemistry curriculum encompassing both lecture and lab periods</li> <li>2. Expansion of our current chemistry laboratory for the training of our students in many biochemistry protocols. This will necessitate the purchase of additional equipment and supplies.</li> <li>3. Hiring of full-time faculty to teach this course. .</li> </ol> |
| What are the expected measurable results of the Action?  | <ol style="list-style-type: none"> <li>(1) Development of a one-semester Biochemistry curriculum encompassing both lecture and lab sections</li> <li>(2) Expand the current Organic Chemistry series of courses,</li> <li>(3) Strengthen the Biological Sciences curriculum</li> <li>(3) Increase retention of many of our Chemistry and majors Biology students as they stay at the college to take the Biochemistry course.</li> <li>4.Enrollment of students in this course at a level comparable to other majors Biology and Chemistry courses.</li> <li>5. Increased enrollment in several chemistry and biology courses that would be a pre-requisite to this newly created biochemistry course.</li> </ol>  |
| Action Initiation Year   | 2015   |
| Action Priority  | 1  |
| Action Status  | New  |

|  |     |
|--|-----|
| Are additional resources needed by the Division/ Department / Program in order to accomplish the Action? | Yes |
|--|-----|

| Linked Planning Objects |                 |  |                  |
|-------------------------|-----------------|--|------------------|
| Link Type               | Planning Object | Planning Element                         | User Description |
| Internal Link           | Unit Goal       | Creation of Biochemistry Course within t |                  |
| Internal Link           | Unit Goal       | ENHANCE THE MAJORS CHEMISTRY/            |                  |

| Planning Element Impacts |   |              |                  |
|--------------------------|---|--------------|------------------|
| Impact Type              | Level Name  | Is Impacted? | User Description |
| Level Impact             | Goal 1. Affirm institutional commitment to student  |              |                  |
| Level Impact             | Goal 2. Support students in preparing for transfer. |              |                  |
| Level Impact             | Goal 3. build on West's success in Career Technical |              |                  |

| Hire a tenure-Track Inorganic Faculty  |  |
|--|--|
| PROVIDE BASIC INFORMATION FOR EACH PLANNED ACTION  |  |
| EACH PLANNED ACTION  | Creation of Biochemistry Course within the Chemistry Division  |
| Action Number  | 2  |
| Provide a description of this action. Include the critical steps required to accomplish this action. | The Division has eight adjunct Chemistry instructors and on any given semester offers 12 chemistry sections: two Chemistry 51, three Chemistry 60, two Chemistry 101, one Chemistry 102, two Chemistry 211 and one Chemistry 212 and one chemistry 221 More than 85% of these offerings are taught by adjunct faculty, putting the part time to full time ratio at 8:1.4 (86%: 14%). In terms of Standard Hours of Instructions, this translates into 83 to 21. The Division needs to hire an in inorganic chemistry to complement our existing talent. The Chemistry 101 and 102 series are our core college level courses that continue to be taught by adjunct faculty. The evening sequence of 101/102 have always been taught by adjuncts. Since 2009, the day 101/102 series have not fared better; day chemistry 101 has been taught by six different adjuncts! The new inorganic chemist would quickly change that dynamics by taking ownership of the freshman chemistry program. |
| What are the expected measurable results of the Action?  | <ol style="list-style-type: none"> <li>1.The arrival of the inorganic chemist would be to make our existing freshman programs more robust- increase enrollment at every facet of all science programs</li> <li>2.Immediately begin to offer more chemistry 51, and 60, courses in anticipation of the expansion of the Dental Hygien* s program attracting more students who need to take our chemistry courses.</li> <li>3. Chemistry 51 and 60 are feeder courses for the general chemistry 101/ 102 series; growth in dental hygiene translates enrollment boost for the chemistry program▲ increase in 51, and 60 means more students going into 101/102 and thus more students entering the organic 211/212 sequence.</li> <li>4. Chemistry 51, 60, 101 and 102 are also feed courses into taking the biological science, and physical sciences</li> </ol>  |

|  |      |
|--|------|
| Action Initiation Year   | 2016 |
| Action Priority  | 2    |
| Action Status  | New  |
| Are additional resources needed by the Division/ Department / Program in order to accomplish the Action? | Yes  |

| Linked Planning Objects |                 |  |                  |
|-------------------------|-----------------|--|------------------|
| Link Type               | Planning Object | Planning Element                             | User Description |
| Internal Link           | Unit Goal       | Improving Physics/<br>Astronomy Laboratories |                  |
| Internal Link           | Unit Goal       | ENHANCE THE MAJORS<br>CHEMISTRY/             |                  |
| Institutional Link      | EMP Objective   | Objective 1.1.1 Effective<br>programs and s  |                  |

| Planning Element Impacts |  |              |                  |
|--------------------------|--|--------------|------------------|
| Impact Type              | Level Name   | Is Impacted? | User Description |
| Level Impact             | Goal 1. Affirm institutional<br>commitment to student  |              |                  |
| Level Impact             | Goal 2. Support students in<br>preparing for transfer. |              |                  |
| Level Impact             | Goal 3. build on West's<br>success in Career Technical |              |                  |

| Hire a Tenure-track Physics Faculty  |  |
|--|--|
| PROVIDE BASIC INFORMATION FOR  |  |
| EACH PLANNED ACTION  | Creation of Biochemistry Course within the Chemistry Division  |
| Action Number  | 3  |
| Provide a description of this action. Include the critical steps required to accomplish this action. | Science Division plans to create physics programs that support all levels of physics, One instructor, cannot do articulation at all levels of the discipline. Curriculum development and teaching the various levels and workload that comes with this mission would have to be shared by a hired probationary physics faculty. This we must do if we are to attract students to West programs.  |
| What are the expected measurable results of the Action?  | Indeed this a smart action and the results of such actions are measurable, :<br>1. Increased transfer in all STEM fields, as Physics is a key part of the transfer preparation; it is the fundamental science on which all others are built.<br>2. Increased enrollment at 4 different levels for the discipline; this also translates to increased enrollment in<br>a. physics, chemistry, and engineering (calculus based) classes<br>b. Life science and medical fields (trig and algebra based), Anatomy, majors Biology Microbiology, and Physiology<br>c. GE clusters (conceptual with little math) ,such as environmental and earth sciences, |

|   |      |
|---|------|
| Action Initiation Year  | 2016 |
| Action Priority   | 3    |
| Action Status   | New  |
| Are additional resources needed by the Division/<br>Department / Program in order to accomplish the Action? | Yes  |

| <b>Hire a Physical Sciences Laboratory Tech</b>   |   |
|---|---|
| PROVIDE BASIC INFORMATION FOR   |   |
| EACH PLANNED ACTION   | Creation of Biochemistry Course within the Chemistry Division   |
| Planned Action  | Hire a Physical Sciences Laboratory Technician (Classified Position)  |
| Action Number   | 4   |
| Provide a description of this action. Include the critical steps required to accomplish this action.        | During the Spring semester of 2016, Astronomy, Physics, Geology, earth Science, and Geography courses will run and operate eight laboratory classes without providing any lab tech to the instructors that teach them; nor has the college ever entered into any MOs of compensation with the instructors for doing their own lab tech work. We need to change this practice and hire a career physical science laboratory technician that is trained to apply knowledge of the physical sciences and scientific laboratory procedure and techniques to performing a broad range of duties related to the day-to-day operations of physical sciences laboratories.  |
| What are the expected measurable results of the Action?   | <ol style="list-style-type: none"> <li>1. The day-to-day operations of the earth Sciences(geography, Geology, Earth Science and Oceanography) laboratories on the one hand and that of physics/engineering and astronomy on the other include weekly storage/maintenance of equipment, setting-up/breaking down. etc. would be handled by trained professionals not college professors</li> <li>2. Experienced lab techs will help build modern laboratories: <ol style="list-style-type: none"> <li>(a) through procurement of new laboratory materials -lab and field equipment,</li> <li>(b) maintain budgetary log for work order for the purchasing of new lab equipment and/or parts as well as for consumables and perishables.</li> <li>(c) A lab tech runs the prep rooms in different floors. stockrooms field preparations, essentially performing curatorial tasks for the laboratory and field equipment for the faculty and their students and perform other additional tasks as needed, such as to maintain display-windows in the corridors outside of the Science laboratories.</li> </ol> </li> <li>3. With this kind of Lab support, the instructors can devote the</li> </ol> |
| Action Initiation Year  | 2015  |
| Action Priority   | 4   |
| Action Status   | New   |
| Are additional resources needed by the Division/<br>Department / Program in order to accomplish the Action? | Yes   |

| <b>Linked Planning Objects</b> |                  |   |                  |
|--------------------------------|------------------|---|------------------|
| Link Type                      | Planning Object  | Planning Element                        | User Description |
| Internal Link                  | Resource Request | HIRE LAB TECH FOR THE PHYSICAL SCIENCES |                  |

| Link Type          | Planning Object | Planning Element                         | User Description |
|--------------------|-----------------|--|------------------|
| Institutional Link | EMP Objective   | Objective 1.1.1 Effective programs and s |                  |

| Hire a Science Division Office Aide  |   |
|--|---|
| USE THE 'LINK' BOX ABOVE TO LINK EACH  |   |
| PLANNED ACTION WITH 1 OR MORE  | Creation of Biochemistry Course within the Chemistry Division   |
| UNIT GOALS & RESOURCE REQUESTS IF NEEDED   | Hire Tenure-track Biochemist  |
| .  | 1   |
| PROVIDE BASIC INFORMATION FOR  | This action describes the hiring of a Biochemist who would oversee the establishment of Biochemistry Program that serves the needs of our division in particular but also could serve in Allied Health and Dental hygiene Divisions, while concurrently being part of the chemistry program faculty member.   |
| EACH PLANNED ACTION  | (1) Development of a one-semester Biochemistry curriculum encompassing both lecture and lab sections<br>(2) Expand the current Organic Chemistry series of courses, that will necessitate the purchase of additional equipment and supplies<br>(3) Strengthen the Biological Sciences curriculum<br>(3) Increase retention of many of our Chemistry and majors Biology students as they stay at the college to take the Biochemistry course.  |
| Action Number  | 5   |
| Provide a description of this action. Include the critical steps required to accomplish this action.     | The Aide will be involved in managing the administrative and secretarial tasks typically found in an academic setting, such as a Division that houses 14 science disciplines. In particular the Office Aide would:<br>Assist in the management of the ever expanding multi-disciplinary approach to the science curriculum the division has embarked.<br>Assist run the division in accordance with established operating procedures in support of the increased interaction among the major science fields-- Biology, Chemistry, Physics.<br>Additionally, manage and administer the other multi-disciplinary fields-- bio-chemistry, bioengineering and biophysics- that the division has expanded into in support of our students who have to compete in the 21st century work force.<br>Assist the Office in the scheduling of appointments for students with faculty/counselors or other divisional personnel. |
| What are the expected measurable results of the Action?  | 1.The 34 Science division Staff members (30 faculty and 4 lab techs) can get badly needed support<br>2. Chair can maintain a systematic calendar run the division smoothly<br>3.coordinated and systematic communication with Academic Affairs.<br>4. Work blocks of faculty collected in a timely manner<br>5.galley production made 1000X easier and faster and on time!  |
| Action Initiation Year   | 2016  |
| Action Priority  | 5   |
| Action Status  | New   |
| Are additional resources needed by the Division/ Department / Program in order to accomplish the Action? | No  |

| Linked Planning Objects |
|-------------------------|
|                         |



| Link Type          | Planning Object  | Planning Element                         | User Description |
|--------------------|------------------|--|------------------|
| Internal Link      | Resource Request | HIRE AN OFFICE AIDE FOR THE OPARATION OF |                  |
| Institutional Link | EMP Objective    | Objective 1.1.1 Effective programs and s |                  |

| Planning Element Impacts |                         |              |                  |
|--------------------------|-------------------------|--------------|------------------|
| Impact Type              | Level Name              | Is Impacted? | User Description |
| Level Impact             | Educational Master Plan |              |                  |

## Resource Request

|   |   |                        |
|---|---|------------------------|
| <b>Setting-up Astronomy Laboratory Station</b>  |   | <b>*** RR # 53 ***</b> |
| PROVIDE A DESCRIPTION OF THE REQUEST  |   |                        |
| Provide a description of the Resource Request   | <p>To establish a modern astronomy laboratory which would be capable of delivering instructions through a variety of ways: in-class worksheets, in-class planetary computer software, and outdoor observing (most preferred)</p> <p>In order to best serve the astronomy class (demonstrations outdoors), the astronomy lab, the star parties (for WLAC students and support local community outreach), hands-on astronomical research and data collection, and the physics/astronomy program as a whole, I am requesting \$13235.05 in order to support the growth and strength of the West science program by providing another component to providing a high quality, comprehensive science program which serves West students and the West community.</p> <p>Line-item prices with quotes can be prepared to facilitate this request.</p> |                        |
| Type of Request   | Non-Salary  |                        |
| Funding Type  | One-Time  |                        |
| Resource Request Priority   | 4   |                        |
| Does this Resource Request meet requirements for health, safety and essential services? | No  |                        |
| If yes, cite the requirement details.   |   |                        |
| Does this Resource Request meet local, state or federal regulations or other mandates?  | No  |                        |
| If yes, cite the relevant Regulations.  |   |                        |
| Resource Request Status   | Continuing  |                        |
| _____   |   |                        |
| DETAILED COST BREAKDOWN   |   |                        |
| _____   |   |                        |
| CERTIFICATED SALARIES (100000)  |   |                        |
| Position Title  |   |                        |

|  |          |
|--|----------|
| Class Code   | The      |
| Type   | Limited  |
| Total Cost of Certificated Benefits                                      |          |
| Total Cost of Certificated Salaries                                      |          |
| _____  |          |
| CLASSIFIED SALARIES (200000)   |          |
| [FOR PAY RATES, REFER TO THE   |          |
| LINK TO THE SALARY SCHEDULE, WHICH IS                                    |          |
| AVAILABLE IN THE 'INSTRUCTIONS.']  |          |
| Position Title   |          |
| Class Code   |          |
| Basis  |          |
| Shift  |          |
| Permanent or temporary   |          |
| Rate   |          |
| Hours per pay period   |          |
| Employee Benefits:   |          |
| _____  |          |
| UNCLASSIFIED SALARIES (200000)   |          |
| Assignment   |          |
| Rate   |          |
| Hours per Pay Period   |          |
| _____  |          |
| NON-SALARY COSTS   |          |
| Instructional media materials (Supplies and Printing, 400000)            | \$1,500  |
| Non-instructional supplies (Supplies and Printing, 400000)               | \$500    |
| Printing/copying (Supplies and Printing, 400000)                         |          |
| Equipment (Instructional and non-instructional) (Capital Outlay, 600000) | \$10,235 |
| Maintenance of equipment )Other Operating Expense, 500000)               | \$1,000  |
| Contracts/personal services (Other Operating Expense, 500000)            |          |

|   |   |
|---|---|
| Alteration and improvement (A & I) (Capital Outlay, 600000)   |   |
| Other Expense:  |   |
| Other expense GL Account:   |   |
| _____   |   |
| TOTAL FIRST YEAR COST OF REQUEST (EST.)   |   |
| Total estimated cost for the first year of the resource request   | \$13,235  |
| _____   |   |
| ADDITIONAL COMMENTS   |   |
| Please note all sources for cost information for the Resource Request that serves to justify the estimated expense. |   |
| What are the proposed funding sources?  | Grants  |
| Please provide any additional information that was not covered above.   |   |
| Resource Request Responsible Person(s)  | Abraha Bahta, Ph.D.<br>Elizabeth Bell, Astronomy/Physics Instructor |

|   |  |
|---|--|
| <b>SETTING-UP MODERN PHYSICS LABORATORY</b> | <b>*** RR # 54 ***</b>   |
| .   |  |
| USE THE 'LINK' BOX ABOVE TO LINK EACH       | The Hiring of a Biochemist   |
| RESOURCE REQUEST WITH 1 OR MORE             | A biochemist the Division desires should also be able to teach the organic series as well as the other courses in the curriculum. Having a biochemist will help keep not only the chemistry students but others from biology and the allied health students who will otherwise go to other colleges to complete their organic chemistry sequence of classes they are required to take as preparatory courses for advancing careers in the medical and related fields. Currently, we are losing some students from taking our organic series as students prefer to take the sequence of 211,212 and 221 in one college. Additionally, this hiring will increase inter-disciplinary and inter-divisional course offerings between chemistry, biology and dental hygiene. For the chemistry curriculum this hire also means an improvement on the fulltime/part time faculty ratio. As it stands now, more than 50% of majors Chemistry courses (chem 101,102, 211, 212) are being taught by adjunct; we want to balance that ratio and bring it close inline |
| PLANNED ACTION.                             | Faculty, Full Time   |
| .   | Ongoing  |
| PROVIDE A DESCRIPTION OF THE REQUEST        | 1  |

|   |   |
|---|---|
| Provide a description of the Resource Request   | <p>To continue to establish a modern physics laboratory which would be capable of delivering instructions through a variety of ways: in-class worksheets, in-class inquiry-based simulation computer software, and modern physics laboratory equipment sufficient in function and number to support a growing program which is still seeking seed money to bring it to functionality</p> <p>In order to best serve the physics class (demonstrations, inquiry based activities, and modern laboratory equipment), the physics lab, equipment (for WLAC students and support the STEM program), the physics program as a whole, I am requesting \$25,000 in order to support the growth and strength of the West physics program by providing another component to supporting a high quality, comprehensive science program which serves West students and the West community.</p> <p>Line-item prices with quotes can be prepared to facilitate this request.</p> |
| Resource Request Status   | New   |
| Type of Request   | Non-Salary  |
| Funding Type  | One-Time  |
| Resource Request Priority   | 5   |
| Does this Resource Request meet requirements for health, safety and essential services?   | No  |
| If yes, cite the requirement details.   |   |
| Does this Resource Request meet local, state or federal regulations or other mandates?  | No  |
| If yes, cite the relevant Regulations.  |   |
| DETAILED COST BREAKDOWN   |   |
| *****   | Probationary  |
| CERTIFICATED SALARY (INCL. FPIP)(100000)  | \$15,904  |
| Position Title  |   |
| Class Code  |   |
| Check ONE appropriate category based on the majority of the assigned classes. (Note: If none of these categories applies, select Student and Instructional Support Service category.) | Student and Instructional Support Serv  |
| How will this position support or sustain other disciplines and programs?   |   |
| Type  |   |
| Total Cost of Certificated Benefits   |   |
| Total Cost of Certificated Salaries   |   |
| CLASSIFIED SALARIES (200000)  |   |

|   |   |
|---|---|
| Position Title  |   |
| Class Code  |   |
| Basis   |   |
| Shift   |   |
| Permanent or temporary  |   |
| Rate  |   |
| Hours per pay period  |   |
| UNCLASSIFIED SALARIES (200000)  |   |
| Assignment  |   |
| Rate  |   |
| Hours per Pay Period  |   |
| NON-SALARY COSTS  |   |
| Instructional media materials (Supplies and Printing, 400000)   | \$1,500   |
| Non-instructional supplies (Supplies and Printing, 400000)  | \$1,000   |
| Printing/copying (Supplies and Printing, 400000)  |   |
| Equipment (Instructional and non-instructional) (Capital Outlay, 600000)  | \$21,500  |
| Maintenance of equipment )Other Operating Expense, 500000)  | \$1,000   |
| Contracts/personal services (Other Operating Expense, 500000)   |   |
| Alteration and improvement (A & I) (Capital Outlay, 600000)   |   |
| Other Expense:  |   |
| Other expense GL Account:   |   |
| TOTAL FIRST YEAR COST OF REQUEST (EST.)   |   |
| Total estimated cost for the first year of the resource request   | \$25,000  |
| ADDITIONAL COMMENTS   |   |
| Please note all sources for cost information for the Resource Request that serves to justify the estimated expense. |   |
| What are the proposed funding sources?  | Grants  |
| Please provide any additional information that was not covered above.   |   |
| Resource Request Responsible Person(s)  | Abraha Bahta, Division Chair, Chemistry Professor<br>Elizabeth Bell, Astronomy/Physics Instructor |

| HIRE AN OFFICE AIDE FOR THE OPARATION OF  |  |
|---|--|
| .   |  |
| USE THE 'LINK' BOX ABOVE TO LINK EACH   | The Hiring of a Biochemist   |
| RESOURCE REQUEST WITH 1 OR MORE   | A biochemist the Division desires should also be able to teach the organic series as well as the other courses in the curriculum. Having a biochemist will help keep not only the chemistry students but others from biology and the allied health students who will othersise go to other colleges to complete their organic chemistry sequence of classes they are required to take as preparatory courses for advancing careers in the medical and related fields. Currently, we are losing some students from taking our organic series as students prefer to take the sequence of 211,212 and 221 in one college.<br>Additionally, this hiring will increase inter-disciplinary and inter-divisional course offerings between chemistry, biology and dental hygiene. For the chemistry curriculum this hire also means an improvement on the fulltime/part time faculty ratio.<br>As it stands now, more than 50% of majors Chemistry courses (chem 101,102, 211, 212) are being taught by adjunct; we want to balance that ratio and bring it close inline |
| PLANNED ACTION.   | Faculty, Full Time   |
| .   | Ongoing  |
| PROVIDE A DESCRIPTION OF THE REQUEST  | 1  |
| Resource Request  | HIRE AN OFFICE AIDE FOR THE OPARATION OF SCIENCE DIVISION  |
| Provide a description of the Resource Request   | Hire an Office Aide to perform a variety of entry-level, routine clerical duties related to the daily operation of the Science Division Office in support of its staff and faculty. The Aide will be involved in managing the administrative and secretarial tasks typically found in an academic setting, providing student and instructional support services.   |
| Resource Request Status   | Continuing   |
| Type of Request   | Faculty, Full Time   |
| Funding Type  | Ongoing  |
| Resource Request Priority   | 5  |
| Does this Resource Request meet requirements for health, safety and essential services? | No   |
| If yes, cite the requirement details.   |  |
| Does this Resource Request meet local, state or federal regulations or other mandates?  | No   |
| If yes, cite the relevant Regulations.  |  |
| DETAILED COST BREAKDOWN   |  |
| *****   | Probationary   |
| CERTIFICATED SALARY (INCL. FPIP)(100000)  | \$15,904   |
| Position Title  |  |
| Class Code  |  |

|   |             |
|---|-------------|
| Check ONE appropriate category based on the majority of the assigned classes. (Note: If none of these categories applies, select Student and Instructional Support Service category.) |             |
| How will this position support or sustain other disciplines and programs?   |             |
| Type  |             |
| Total Cost of Certificated Benefits   |             |
| Total Cost of Certificated Salaries   |             |
| CLASSIFIED SALARIES (200000)  |             |
| Position Title  | OFFICE AIDE |
| Class Code  | 2679        |
| Basis   | A           |
| Shift   | A (day)     |
| Permanent or temporary  | Permanent   |
| Rate  | \$33,000    |
| Hours per pay period  | 14190       |
| UNCLASSIFIED SALARIES (200000)  |             |
| Assignment  |             |
| Rate  |             |
| Hours per Pay Period  |             |
| NON-SALARY COSTS  |             |
| Instructional media materials (Supplies and Printing, 400000)   |             |
| Non-instructional supplies (Supplies and Printing, 400000)  |             |
| Printing/copying (Supplies and Printing, 400000)  |             |
| Equipment (Instructional and non-instructional) (Capital Outlay, 600000)  |             |
| Maintenance of equipment )Other Operating Expense, 500000)  |             |
| Contracts/personal services (Other Operating Expense, 500000)   |             |
| Alteration and improvement (A & I) (Capital Outlay, 600000)   |             |
| Other Expense:  |             |
| Other expense GL Account:   |             |
| TOTAL FIRST YEAR COST OF REQUEST (EST.)   |             |
| Total estimated cost for the first year of the resource request   | \$47,190    |

|   |  |
|---|--|
| ADDITIONAL COMMENTS   |  |
| Please note all sources for cost information for the Resource Request that serves to justify the estimated expense. | benefit cost for the classified is included in this estimate |
| What are the proposed funding sources?  | Program 100  |
| Please provide any additional information that was not covered above.   |  |
| Resource Request Responsible Person(s)  |  |

| Linked Planning Objects |                 |                                     |                  |
|-------------------------|-----------------|-------------------------------------|------------------|
| Link Type               | Planning Object | Planning Element                    | User Description |
| Internal Link           | Planned Action  | Hire a Science Division Office Aide |                  |

| HIRE LAB TECH FOR THE PHYSICAL SCIENCES       |  |
|---|--|
| .   |  |
| USE THE 'LINK' BOX ABOVE TO LINK EACH         | The Hiring of a Biochemist   |
| RESOURCE REQUEST WITH 1 OR MORE               | A biochemist the Division desires should also be able to teach the organic series as well as the other courses in the curriculum. Having a biochemist will help keep not only the chemistry students but others from biology and the allied health students who will otherwise go to other colleges to complete their organic chemistry sequence of classes they are required to take as preparatory courses for advancing careers in the medical and related fields. Currently, we are losing some students from taking our organic series as students prefer to take the sequence of 211,212 and 221 in one college. Additionally, this hiring will increase inter-disciplinary and inter-divisional course offerings between chemistry, biology and dental hygiene. For the chemistry curriculum this hire also means an improvement on the fulltime/part time faculty ratio. As it stands now, more than 50% of majors Chemistry courses (chem 101,102, 211, 212) are being taught by adjunct; we want to balance that ratio and bring it close inline |
| PLANNED ACTION.                               | Faculty, Full Time   |
| .   | Ongoing  |
| PROVIDE A DESCRIPTION OF THE REQUEST          | 1  |
| Provide a description of the Resource Request | Relieve faculty from routine laboratory preparation chores. A career physical science laboratory technician applies knowledge of the physical sciences and scientific laboratory procedures and techniques in performing a broad range of duties related to the day-to-day operations of physics/engineering and astronomy laboratories; these include weekly storage/maintenance of equipment, setting-up / breaking-down (as per the instructor's order) continues testing of equipment for reliability and safety before the students' use and other duties as needed for an orderly operation of laboratory classes and thus facilitating the faculty's obligation to carry out his/her duties : lecturing, mentoring, advising. Additionally, the faculty would engage with colleagues, write grants to advance the cause on the discipline   |
| Resource Request Status                       | New  |



|   |  |
|---|--|
| Type of Request   | Classified                             |
| Funding Type  | Ongoing                                |
| Resource Request Priority   | 3                                      |
| Does this Resource Request meet requirements for health, safety and essential services?   | No                                     |
| If yes, cite the requirement details.   |  |
| Does this Resource Request meet local, state or federal regulations or other mandates?  | No                                     |
| If yes, cite the relevant Regulations.  |  |
| DETAILED COST BREAKDOWN   |  |
| *****   | Probationary                           |
| CERTIFICATED SALARY (INCL. FPIP)(100000)  | \$15,904                               |
| Position Title  |  |
| Class Code  |  |
| Check ONE appropriate category based on the majority of the assigned classes. (Note: If none of these categories applies, select Student and Instructional Support Service category.) | General Education and Transfer         |
| How will this position support or sustain other disciplines and programs?   |  |
| Type  |  |
| Total Cost of Certificated Benefits   |  |
| Total Cost of Certificated Salaries   |  |
| CLASSIFIED SALARIES (200000)  |  |
| Position Title  | PHYSICAL SCIENCE LABORATORY TECHNICIAN |
| Class Code  | 5274                                   |
| Basis   | A                                      |
| Shift   | B (evening)                            |
| Permanent or temporary  |  |
| Rate  | \$84,000                               |
| Hours per pay period  | 260                                    |
| UNCLASSIFIED SALARIES (200000)  |  |
| Assignment  |  |
| Rate  |  |
| Hours per Pay Period  |  |

|   |   |
|---|---|
| NON-SALARY COSTS  |   |
| Instructional media materials (Supplies and Printing, 400000)   |   |
| Non-instructional supplies (Supplies and Printing, 400000)  |   |
| Printing/copying (Supplies and Printing, 400000)  |   |
| Equipment (Instructional and non-instructional) (Capital Outlay, 600000)  |   |
| Maintenance of equipment )Other Operating Expense, 500000)  |   |
| Contracts/personal services (Other Operating Expense, 500000)   |   |
| Alteration and improvement (A & I) (Capital Outlay, 600000)   |   |
| Other Expense:  |   |
| Other expense GL Account:   |   |
| TOTAL FIRST YEAR COST OF REQUEST (EST.)   |   |
| Total estimated cost for the first year of the resource request   | \$120,000   |
| ADDITIONAL COMMENTS   |   |
| Please note all sources for cost information for the Resource Request that serves to justify the estimated expense. | BENEFIT FOR LAB TECH IN THE AMOUNT OF \$36,000 INCLUDED IN THE TOTAL ESTIMATE |
| What are the proposed funding sources?  | Program 100   |
| Please provide any additional information that was not covered above.   |   |
| Resource Request Responsible Person(s)  | ABRAHA BAHTA, PH.D.<br>BERAKI WOLDEHAIMANOT, PH.D.<br>ELIZABETH BELL          |

| Linked Planning Objects |                 |  |                  |
|-------------------------|-----------------|--|------------------|
| Link Type               | Planning Object | Planning Element                         | User Description |
| Internal Link           | Planned Action  | Hire a Physical Sciences Laboratory Tech |                  |

| HIRE A CHEMISTRY (BIOCHEMISTRY) FACULTY |                            |
|---|----------------------------|
| .                                       |                            |
| USE THE 'LINK' BOX ABOVE TO LINK EACH   | The Hiring of a Biochemist |

|   |  |
|---|--|
| RESOURCE REQUEST WITH 1 OR MORE   | A biochemist the Division desires should also be able to teach the organic series as well as the other courses in the curriculum. Having a biochemist will help keep not only the chemistry students but others from biology and the allied health students who will otherwise go to other colleges to complete their organic chemistry sequence of classes they are required to take as preparatory courses for advancing careers in the medical and related fields. Currently, we are losing some students from taking our organic series as students prefer to take the sequence of 211,212 and 221 in one college.<br>Additionally, this hiring will increase inter-disciplinary and inter-divisional course offerings between chemistry, biology and dental hygiene. For the chemistry curriculum this hire also means an improvement on the fulltime/part time faculty ratio.<br>As it stands now, more than 50% of majors Chemistry courses (chem 101,102, 211, 212) are being taught by adjunct; we want to balance that ratio and bring it close inline |
| PLANNED ACTION.   | Faculty, Full Time   |
| .   | Ongoing  |
| PROVIDE A DESCRIPTION OF THE REQUEST  | 1  |
| Resource Request  | HIRE A CHEMISTRY (BIOCHEMISTRY) FACULTY I  |
| Provide a description of the Resource Request   | A biochemist the Division desires should also be able to teach the organic series as well as the other courses in the curriculum. Having a biochemist will help keep not only the chemistry students but others from biology and the allied health students who will otherwise go to other colleges to complete their organic chemistry sequence of classes they are required to take as preparatory courses for advancing careers in the medical and related fields. Currently, we are losing some students from taking our organic series as students prefer to take the sequence of 211,212 and 221 in one college.<br>Additionally, this hiring will increase inter-disciplinary and inter-divisional course offerings between chemistry, biology and dental hygiene. For the chemistry curriculum this hire also means an improvement on the fulltime/part time faculty ratio.<br>As it stands now, more than 50% of majors Chemistry courses (chem 101,102, 211, 212) are being taught by adjunct; we want to balance that ratio and bring it close inline |
| Resource Request Status   | New  |
| Type of Request   | Faculty, Full Time   |
| Funding Type  | Ongoing  |
| Resource Request Priority   | 1  |
| Does this Resource Request meet requirements for health, safety and essential services? | No   |
| If yes, cite the requirement details.   |  |
| Does this Resource Request meet local, state or federal regulations or other mandates?  | No   |
| If yes, cite the relevant Regulations.  |  |
| DETAILED COST BREAKDOWN   |  |
| *****   | Probationary   |
| CERTIFICATED SALARY (INCL. FPIP)(100000)  | \$15,904   |

|   |                                |
|---|--------------------------------|
| Position Title  | CHEMISTRY INSTRUCTOR           |
| Class Code  |                                |
| Check ONE appropriate category based on the majority of the assigned classes. (Note: If none of these categories applies, select Student and Instructional Support Service category.) | General Education and Transfer |
| How will this position support or sustain other disciplines and programs?   |                                |
| Type  | Probationary                   |
| Total Cost of Certificated Benefits   | \$16,000                       |
| Total Cost of Certificated Salaries   | \$70,000                       |
| CLASSIFIED SALARIES (200000)  |                                |
| Position Title  |                                |
| Class Code  |                                |
| Basis   |                                |
| Shift   |                                |
| Permanent or temporary  |                                |
| Rate  |                                |
| Hours per pay period  |                                |
| UNCLASSIFIED SALARIES (200000)  |                                |
| Assignment  |                                |
| Rate  |                                |
| Hours per Pay Period  |                                |
| NON-SALARY COSTS  |                                |
| Instructional media materials (Supplies and Printing, 400000)   |                                |
| Non-instructional supplies (Supplies and Printing, 400000)  |                                |
| Printing/copying (Supplies and Printing, 400000)  |                                |
| Equipment (Instructional and non-instructional) (Capital Outlay, 600000)  |                                |
| Maintenance of equipment )Other Operating Expense, 500000)  |                                |
| Contracts/personal services (Other Operating Expense, 500000)   |                                |
| Alteration and improvement (A & I) (Capital Outlay, 600000)   |                                |
| Other Expense:  |                                |
| Other expense GL Account:   |                                |

|   |  |
|---|--|
| TOTAL FIRST YEAR COST OF REQUEST (EST.)   |  |
| Total estimated cost for the first year of the resource request   | \$86,000                                       |
| ADDITIONAL COMMENTS   |  |
| Please note all sources for cost information for the Resource Request that serves to justify the estimated expense. |  |
| What are the proposed funding sources?  | Program 100                                    |
| Please provide any additional information that was not covered above.   |  |
| Resource Request Responsible Person(s)  | ABRAHA BAHTA, PH.D<br>MESFIN ALEMAYEHU , PH.D. |

| <b>HIRE A CHEMISTRY (INORGANIC) FACULTY II</b> |   |
|--|---|
| .  |   |
| USE THE 'LINK' BOX ABOVE TO LINK EACH          | Setting-up Astronomy Laboratory Station   |
| RESOURCE REQUEST WITH 1 OR MORE                | <p>To establish a modern astronomy laboratory which would be capable of delivering instructions through a variety of ways: in-class worksheets, in-class planetary computer software, and outdoor observing (most preferred)</p> <p>In order to best serve the astronomy class (demonstrations outdoors), the astronomy lab, the star parties (for WLAC students and support local community outreach), hands-on astronomical research and data collection, and the physics/astronomy program as a whole, I am requesting \$13235.05 in order to support the growth and strength of the West science program by providing another component to providing a high quality, comprehensive science program which serves West students and the West community.</p> <p>Line-item prices with quotes can be prepared to facilitate this request.</p> |
| PLANNED ACTION.                                | Non-Salary  |
| .  | One-Time  |
| PROVIDE A DESCRIPTION OF THE REQUEST           | 4   |
| Provide a description of the Resource Request  | This faculty will possess a different area specialization than the current two faculty members (organic and physical) or the would be hired-- a biochemist!, The primarily responsiibilit for this faculty is to teach and engage introductory and general chemistry classes. Assignment would include chem 51, 60, 101, and 102, and could be scheduled during morning, afternoon and evening hours. Indeed, our chemistry program can very easily create several versions of teaching assignments for this instructor.  |
| Resource Request Status                        | New   |
| Type of Request                                | Faculty, Full Time  |
| Funding Type                                   | Ongoing   |
| Resource Request Priority                      | 2   |

|   |                                |
|---|--------------------------------|
| Does this Resource Request meet requirements for health, safety and essential services?   | No                             |
| If yes, cite the requirement details.   |                                |
| Does this Resource Request meet local, state or federal regulations or other mandates?  | No                             |
| If yes, cite the relevant Regulations.  |                                |
| DETAILED COST BREAKDOWN   | The                            |
| *****   | Limited                        |
| CERTIFICATED SALARY (INCL. FPIP)(100000)  |                                |
| Position Title  | CHEMISTRY INSTRUCTOR           |
| Class Code  |                                |
| Check ONE appropriate category based on the majority of the assigned classes. (Note: If none of these categories applies, select Student and Instructional Support Service category.) | General Education and Transfer |
| How will this position support or sustain other disciplines and programs?   |                                |
| Type  | Probationary                   |
| Total Cost of Certificated Benefits   | \$16,000                       |
| Total Cost of Certificated Salaries   | \$70,000                       |
| CLASSIFIED SALARIES (200000)  |                                |
| Position Title  |                                |
| Class Code  |                                |
| Basis   |                                |
| Shift   |                                |
| Permanent or temporary  |                                |
| Rate  |                                |
| Hours per pay period  |                                |
| UNCLASSIFIED SALARIES (200000)  |                                |
| Assignment  |                                |
| Rate  |                                |
| Hours per Pay Period  |                                |
| NON-SALARY COSTS  |                                |
| Instructional media materials (Supplies and Printing, 400000)   |                                |
| Non-instructional supplies (Supplies and Printing, 400000)  |                                |

|   |   |
|---|---|
| Printing/copying (Supplies and Printing, 400000)  |   |
| Equipment (Instructional and non-instructional) (Capital Outlay, 600000)  |   |
| Maintenance of equipment )Other Operating Expense, 500000)  |   |
| Contracts/personal services (Other Operating Expense, 500000)   |   |
| Alteration and improvement (A & I) (Capital Outlay, 600000)   |   |
| Other Expense:  |   |
| Other expense GL Account:   |   |
| TOTAL FIRST YEAR COST OF REQUEST (EST.)   |   |
| Total estimated cost for the first year of the resource request   | \$86  |
| ADDITIONAL COMMENTS   |   |
| Please note all sources for cost information for the Resource Request that serves to justify the estimated expense. |   |
| What are the proposed funding sources?  | Program 100                                   |
| Please provide any additional information that was not covered above.   |   |
| Resource Request Responsible Person(s)  | ABRAHA BAHTA PH.D.<br>MESFIN ALEMAYEHU, PH.D. |

| SETTING-UP BIOCHEMISTRY LABORATORY            | *** RR # 55 ***   |
|---|---|
| .   |   |
| USE THE 'LINK' BOX ABOVE TO LINK EACH         | The Hiring of a Biochemist  |
| RESOURCE REQUEST WITH 1 OR MORE               | <p>A biochemist the Division desires should also be able to teach the organic series as well as the other courses in the curriculum. Having a biochemist will help keep not only the chemistry students but others from biology and the allied health students who will otherwise go to other colleges to complete their organic chemistry sequence of classes they are required to take as preparatory courses for advancing careers in the medical and related fields. Currently, we are losing some students from taking our organic series as students prefer to take the sequence of 211,212 and 221 in one college.</p> <p>Additionally, this hiring will increase inter-disciplinary and inter-divisional course offerings between chemistry, biology and dental hygiene. For the chemistry curriculum this hire also means an improvement on the fulltime/part time faculty ratio.</p> <p>As it stands now, more than 50% of majors Chemistry courses (chem 101,102, 211, 212) are being taught by adjunct; we want to balance that ratio and bring it close inline</p> |
| PLANNED ACTION.                               | Faculty, Full Time  |
| .   | Ongoing   |
| PROVIDE A DESCRIPTION OF THE REQUEST          | 1   |
| Provide a description of the Resource Request |   |

|   |              |
|---|--------------|
| Resource Request Status   | New          |
| Type of Request   | Non-Salary   |
| Funding Type  | One-Time     |
| Resource Request Priority   | 6            |
| Does this Resource Request meet requirements for health, safety and essential services?   | No           |
| If yes, cite the requirement details.   |              |
| Does this Resource Request meet local, state or federal regulations or other mandates?  | No           |
| If yes, cite the relevant Regulations.  |              |
| DETAILED COST BREAKDOWN   |              |
| *****   | Probationary |
| CERTIFICATED SALARY (INCL. FPIP)(100000)  | \$15,904     |
| Position Title  |              |
| Class Code  |              |
| Check ONE appropriate category based on the majority of the assigned classes. (Note: If none of these categories applies, select Student and Instructional Support Service category.) |              |
| How will this position support or sustain other disciplines and programs?   |              |
| Type  |              |
| Total Cost of Certificated Benefits   |              |
| Total Cost of Certificated Salaries   |              |
| CLASSIFIED SALARIES (200000)  |              |
| Position Title  |              |
| Class Code  |              |
| Basis   |              |
| Shift   |              |
| Permanent or temporary  |              |
| Rate  |              |
| Hours per pay period  |              |
| UNCLASSIFIED SALARIES (200000)  |              |
| Assignment  |              |
| Rate  |              |



|   |   |
|---|---|
| Hours per Pay Period  |   |
| NON-SALARY COSTS  |   |
| Instructional media materials (Supplies and Printing, 400000)   |   |
| Non-instructional supplies (Supplies and Printing, 400000)  |   |
| Printing/copying (Supplies and Printing, 400000)  |   |
| Equipment (Instructional and non-instructional) (Capital Outlay, 600000)  | \$12,500  |
| Maintenance of equipment )Other Operating Expense, 500000)  |   |
| Contracts/personal services (Other Operating Expense, 500000)   |   |
| Alteration and improvement (A & I) (Capital Outlay, 600000)   |   |
| Other Expense:  | \$10,150  |
| Other expense GL Account:   | PURCHASE :15 LAB KITS; 4-6 SETS OF MICROPIPETS; REFRIGERATOR/FREEZER ; 4-6 GEL CASTING ETC. |
| TOTAL FIRST YEAR COST OF REQUEST (EST.)   |   |
| Total estimated cost for the first year of the resource request   | \$22,650  |
| ADDITIONAL COMMENTS   |   |
| Please note all sources for cost information for the Resource Request that serves to justify the estimated expense. |   |
| What are the proposed funding sources?  | Grants  |
| Please provide any additional information that was not covered above.   |   |
| Resource Request Responsible Person(s)  | ABR.AHA BAHTA PH.D<br>MESFIN ALEMAYEHU, PH.D  |

|                                       |   |
|---------------------------------------|---|
| <b>HIRE A PHYSICS FACULTY</b>         |   |
|                                       |   |
| USE THE 'LINK' BOX ABOVE TO LINK EACH | Setting-up Astronomy Laboratory Station |

|   |   |
|---|---|
| RESOURCE REQUEST WITH 1 OR MORE   | <p>To establish a modern astronomy laboratory which would be capable of delivering instructions through a variety of ways: in-class worksheets, in-class planetary computer software, and outdoor observing (most preferred)</p> <p>In order to best serve the astronomy class (demonstrations outdoors), the astronomy lab, the star parties (for WLAC students and support local community outreach), hands-on astronomical research and data collection, and the physics/astronomy program as a whole, I am requesting \$13235.05 in order to support the growth and strength of the West science program by providing another component to providing a high quality, comprehensive science program which serves West students and the West community.</p> <p>Line-item prices with quotes can be prepared to facilitate this request.</p> |
| PLANNED ACTION.   | Non-Salary  |
| .   | One-Time  |
| PROVIDE A DESCRIPTION OF THE REQUEST  | 4   |
| Provide a description of the Resource Request   | West currently only offers the first and third levels of the Physics curriculum. It is desired that all levels be offered, thus making our course offerings robust, serving students of the community in all divisions --biological, and physical science students as well as students in GE curriculum. This hire can help the college accomplish this mission and also develop a foundation for establishing engineering programs both for AA and transfer.   |
| Resource Request Status   | New   |
| Type of Request   | Faculty, Full Time  |
| Funding Type  | Ongoing   |
| Resource Request Priority   | 3   |
| Does this Resource Request meet requirements for health, safety and essential services?   | No  |
| If yes, cite the requirement details.   |   |
| Does this Resource Request meet local, state or federal regulations or other mandates?  | No  |
| If yes, cite the relevant Regulations.  |   |
| DETAILED COST BREAKDOWN   | The   |
| *****   | Limited   |
| CERTIFICATED SALARY (INCL. FPIP)(100000)  |   |
| Position Title  | PHYSICS INSTRUCTOR  |
| Class Code  |   |
| Check ONE appropriate category based on the majority of the assigned classes. (Note: If none of these categories applies, select Student and Instructional Support Service category.) | General Education and Transfer  |
| How will this position support or sustain other disciplines and programs?   |   |

|   |              |
|---|--------------|
| Type  | Probationary |
| Total Cost of Certificated Benefits   | \$16,000     |
| Total Cost of Certificated Salaries   | \$17,000     |
| CLASSIFIED SALARIES (200000)  |              |
| Position Title  |              |
| Class Code  |              |
| Basis   |              |
| Shift   |              |
| Permanent or temporary  |              |
| Rate  |              |
| Hours per pay period  |              |
| UNCLASSIFIED SALARIES (200000)  |              |
| Assignment  |              |
| Rate  |              |
| Hours per Pay Period  |              |
| NON-SALARY COSTS  |              |
| Instructional media materials (Supplies and Printing, 400000)   |              |
| Non-instructional supplies (Supplies and Printing, 400000)  |              |
| Printing/copying (Supplies and Printing, 400000)  |              |
| Equipment (Instructional and non-instructional) (Capital Outlay, 600000)  |              |
| Maintenance of equipment )Other Operating Expense, 500000)  |              |
| Contracts/personal services (Other Operating Expense, 500000)   |              |
| Alteration and improvement (A & I) (Capital Outlay, 600000)   |              |
| Other Expense:  |              |
| Other expense GL Account:   |              |
| TOTAL FIRST YEAR COST OF REQUEST (EST.)   |              |
| Total estimated cost for the first year of the resource request   | \$86,000     |
| ADDITIONAL COMMENTS   |              |
| Please note all sources for cost information for the Resource Request that serves to justify the estimated expense. |              |
| What are the proposed funding sources?  | Program 100  |

|   |   |
|---|---|
| Please provide any additional information that was not covered above. |   |
| Resource Request Responsible Person(s)                                | Abraha Bahta, Ph.D, Division Chair<br>Elizabeth Bell, Physics/Astronomy Professor |