**Unit Strategic Plan**

**2015- 2017**

**Name of Program/Department:**   **Construction and Building Science**

**Technology (CBST)**

**Mission Statement (for the program or department):**

The general mission of the Construction and Building Science Program, as contained in the Mission of the College, is to offer programs and activities that reflect those characteristics that help define an educated person. These characteristics include a level of general education that enables the individual to understand his or her culture and environment; the development of skills in analysis, communication, qualification, and synthesis necessary for further growth as a lifelong member of society; the identification of a system of personal values based on accepted ethics that lead to civic and social responsibility; and the attainment of skills that enhance the development of leisure activities and a healthful lifestyle. These characteristics are attained not only through organized courses and programs, but through a variety of social, cultural, civic and other educational activities that are offered based on the needs of the community.

Therefore, the mission of the Construction and Building Science Technology Department continues with providing the building and architecture industry with graduates that can function effectively in the workplace.

**Program Outcomes**

1. 90% of employers surveyed will indicate that graduates were adequately prepared for entry level positions.

2. 80% of graduates will be employed in field, enrolled in college or in the military within one year of graduation.

3. 90% of graduates surveyed will report satisfaction with educational preparation.

**Program Level Student Learning Outcomes:**

1. Be able to solve construction management problems using mathematics, science and problem solving skills.

2. Function effectively as a team member or as the leader of a team.

3. Possess an understanding of professional and ethical responsibilities present in construction management.

4. Be able to communicate effectively using written and verbal assignments.

5. Be able to plan, direct and coordinate construction projects.

**Summary of Access, Productivity and Effectiveness (Including, but not limited to, program load, success rate, retention rate, completion rate, employer surveys, student surveys):**

**Award Sought Headcount by Program CIP code shows the following:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 15.1001 – Construction and Building Science Technology | | |  | | --- | | **Year**  **Fall** | | |  | | --- | | **AAS** | | |  | | --- | | **STC** | | |  | | --- | | **CER** | | |  | | --- | | **NDS** | | |  | | --- | | **Total**  **Headcount** | |
| 2010 | |  | | --- | | 60 | | 0 | 0 | 0 | 60 |
| 2011 | 53 | 0 | 3 | 0 | 56 |
| 2012 | 55 | 0 | 0 | 0 | 55 |
| 2013 | 56 | 0 | 0 | 0 | 56 |
| 2014 | 54 | 0 | 0 | 0 | 54 |
| 2015 | 77 | 0 | 0 | 0 | 77 |

As per College records, the Fall of 2015 enrollment shows a 37.5% increase over the previous five years average enrollment. This shows a substantial positive growth in enrollment for this department. The Department is putting its utmost efforts forward to keep such growth for upcoming academic years as well.

**IPEDS Completion Data for Construction and Building Science Technology:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 15.1001 – Construction and Building Science Technology  Three-Year Graduate Data | | |  | | --- | | **Year** | | |  | | --- | | **C26** | | |  | | --- | | **CER** | | |  | | --- | | **Degree** | | |  | | --- | | **Total** | |
| Summer 2012-  Spring 2013 | 6 | 6 | 5 | 17 |
| Summer 2013-  Spring 2014 | 9 | 8 | 6 | 23 |
| Summer 2014-  Spring 2015 | 2 | 2 | 3 | 7 |
| Three Year Average | 5.67 | 5.33 | 4.67 | 15.67 |

**Annual Credit Hour Production**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 15.1001 – Construction and Building Science Technology  Three-Year Credit Hour Production Data | | |  | | --- | | **Year** | | |  | | --- | | **AET** | | |  | | --- | | **CDT** | | |  | | --- | | **CMT** | | |  | | --- | | **Total** | |
| Summer 2012-  Spring 2013 | 358 | 98 | 398 | 854 |
| Summer 2013-  Spring 2014 | 300 | 98 | 365 | 763 |
| Summer 2014-  Spring 2015 | 253 | 55 | 369 | 677 |
| Three Year Average | 303.67 | 83.67 | 377.33 | 764.67 |

**Graduate Survey Results:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 15.1001 – Construction and Building Science Technology | | |  | | --- | | **Year** | | **No. of graduates who responded** | |  |  | | --- | --- | | **No. employed in the Field** | | |  | | |  | | |  | | |  | | --- | |  |   **No. employed out of Field** |
| 2010-2011 | 7 | 3 | 0 |
| 2011-2012 | 5 | 3 | 0 |
| 2012- 2013 | 5 | 4 | 1 |

**Internal Conditions:**

1. **Technology**

a. The technology that is being used within the Construction and Building Science Department is up to date, in good working order, and is valued by both faculty and students. The administration has been fully supportive as updates are needed for software and hardware that directly impact student learning. Future upgrades to computer hardware are driven by the demands of computer software. The department’s budget is designed and capable of absorbing any fluctuations in hardware of software needs.

b. The department has recently updated one of its computer labs by

purchasing and installing 19 double-monitor computer stations. These computers along with 20 other computer stations, in the second classroom lab, are loaded with the latest Architecture CAD version, Microsoft Project, and complete Office Suite. Furthermore, the department purchased a new Dell Laptop computer for the Program Coordinator.

c. The department currently is fully equipped with document cameras, projectors and computers within all its classrooms. This equipment has been used heavily by faculty and students and is appreciated by both.

d. CBST purchased four 42” commercial advertising TV monitors and hardware for recruitment purposes and to provide program information/updates. Three of these monitors were installed in the Harold Martin Building and one is being used as a mobile unit to help with off campus recruitment. Positive feedback and comments have been received from current, incoming freshmen students, and visitors.

**2. Budget**

a. Currently, there are two funding accounts that support the Construction and Building Science Department:

1. The general Construction and Building Science Department budget (#10003) is sufficiently supporting faculty salaries, office needs, lab supplies, professional development, printing and local travel.

2. The general contractors licensing board fee (#229001) are funds derived from the annual Alabama General Contractors license dues. A percentage of all general contractor license fees are to be split among all accredited construction and engineering schools within the state. The size of this annual amount depends on many changing factors. The number of students graduating with a construction management degree and the number of general contractors purchasing and renewing their licenses each year are the two primary factors that determine our income of this account. The college’s Financial Services Department and the Construction and Building Science Department work together to manage the balance of this account. This account supports some faculty and student travel and needed building materials and office supplies. The vast majority of this account is reserved for the purchase of computer hardware and software.

b. Upcoming purchases will include, but are not limited to:

1. Maintain the Auto CAD software license. (Note: this expenditure is equally divided between the Construction and Building Science and Manufacturing and Technology Departments) The total for 25 seat master license is: $12,931 / 2 = $6,465.50 for each department annually.

2. Regular materials are needed for the concrete testing class. This will be an ongoing expenditure that replicates annually. The department spends $500 annually for testing materials.

3. Wood shop replenishment is essential for students’ course work and learning. $3,000 per year is needed to purchase materials used in the wood shop. This amount includes purchasing safety supplies, tools, equipment and related machinery for the space. Future expenditures will focus on materials used for student building and model projects. This materials fund will also support instructor building and model projects used for class and competition purposes.

4. One Large-Format does not enough memory to handle updated CAD software and the two 11”x17” printers can no longer communicate with the new network. Estimated cost for the Large-Format printer is $6,000. Estimated cost for the two 11”x17” printers is $4,000.

**3. Staffing**

The Construction and Building Science Department (CBST) currently has 2 full-time faculty:

Mike Safavi, AIC, CPC

Program Coordinator, Instructor, Department Advisor

and

Murray Jones

Instructor, Department Advisor

Part-time instructors/Adjunct faculty are being hired as needed. Both faculty members teach full-time, perform office duties and student academic advising, per college requirements. All the support (Financial Aid, Advising, Library) and administrative (Office Managers, Deans, Business Office) departments help to maintain the high academic quality of the CBST department.

**4. Resources**

JSCC construction graduates have been satisfying construction management and architecture employer needs in this area since 1968. Since the beginning, the Department has been supported by both national and local builders and contractors associations (GBAHB, NHE, NAHB, AGC, CEFA). Department graduates are hired to work for small local or large national builders and architecture firms (Doster Construction, Brasfield and Gorrie, Robins and Morton, DR Horton Homes, Harris and Doyle Homes). The Department’s reputation and history of providing well-educated construction professionals is a great resource that will continue to attract new CBST students.

The CBST Department has a good supply of literary resources for student use within the JSCC Main Library, within the Department and additional literature will be ordered as needed. The Department’s students and faculty have adequate access to drafting tables, computers, printers and plotters. The two full-time faculty offices are located close to the CBST classrooms and are staffed during the day and late into the evening to be accommodating to varying student schedules and needs.

The American Council for Construction Education (ACCE) accredits the Department’s Construction Management Degree (CO59). ACCE accredits construction education programs in colleges and universities that request its evaluation and meet its standards and criteria. ACCE is recognized by the Council for Higher Education Accreditation (CHEA) as the accrediting agency for Baccalaureate and Associate Degree programs in construction, construction science, and construction management and construction technology located in North America. The Construction Management degree at JSCC is one of only two accredited construction management degrees, and is the only accredited two-year construction management degree, within the state of Alabama and one of twelve nationwide.

CBST students have the ability to be involved in many extracurricular activities. These activities include the NAHB’s Residential construction Management Competition, Habitat for Humanity build days, Homes for our Troops build days, the Moss Rock Festival booth, and many other construction related field trips.

**5. Enrollment**

The Construction and Building Science Technology Department consists of both traditional and non-traditional students. Despite the challenges within the construction market in recent years, this department has maintained a rather steady headcount. As the market improves, the department expects enrollment and graduation numbers to continue advancing. The department currently well exceeds the minimum required graduates’ number of 7.5 over a three-year period. Currently, the three-year graduates’ average for this department is 15.67.

Existing national forecasts have the construction market in Alabama listed as improving. The enrollment within our department follows the trends of the building trades; we are expecting to see gradual improvements in our enrollment numbers throughout this next year.

In Fall 2015 we are witnessing a considerable 37.5% increase in enrollment compared to the previous five years average. The Department goal is to continue with such growths.

**Award Sought Headcount by Program CIP code shows the following:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 15.1001 – Construction and Building Science Technology | | |  | | --- | | **Year**  **Fall** | | |  | | --- | | **AAS** | | |  | | --- | | **STC** | | |  | | --- | | **CER** | | |  | | --- | | **NDS** | | |  | | --- | | **Total**  **Headcount** | |
| 2010 | |  | | --- | | 60 | | 0 | 0 | 0 | 60 |
| 2011 | 53 | 0 | 3 | 0 | 56 |
| 2012 | 55 | 0 | 0 | 0 | 55 |
| 2013 | 56 | 0 | 0 | 0 | 56 |
| 2014 | 54 | 0 | 0 | 0 | 54 |
| 2015 | 77 | 0 | 0 | 0 | 77 |

**Headcount by academic semester and year shows the following:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 15.1001 – Construction and Building Science Technology | | |  | | --- | | **Semester** | | |  | | --- | | 2012 2013 | | |  | | --- | | 20132014 | | |  | | --- | | 2014 2015 | | |  | | --- | | **Average**  **Headcount per semester** | |
| **Fall** | |  | | --- | | 55 | | 56 | 54 | 55 |
| **Spring** | 56 | 56 | 49 | 54 |
| **Summer** | 34 | 27 | 29 | 30 |
| **Total** | **145** | **139** | **132** | **139** |

**6. Facilities**

The Harold Martin Building:

a. All classrooms and labs are fully equipped and ready for student use. There are sufficient rooms in Harold Martin Building for every course offered by the Department. Individual rooms have been carefully designated to accommodate the nature of the courses regarding lectures and labs requirements.

b. The faculty offices are reasonably furnished, clean and relatively comfortable. Upgrades to the building existing air conditioning are often welcome. Sometimes the A.C. works too well. We encourage people to bring jackets to class in the summer and layers in winter. The building, in like manner, is usually more than warm in the winter. These extreme temperature variations are caused by lack of individual thermostats functioning which have been designed to control the temperature for each room.

**7. Equipment**

a. The wood shop is a good resource for the students. It is adequately equipped and ready for student and class use. This wood shop requires on going replenishment for tools and material that is supported by our annual budget.

b. Although the computer labs located in the Harold Martin building (rooms 241 and 236) are equipped with 11”x17” and Large-Format printers, it is past due for all these printers to be replaced. The one Large-Format Printer does not have enough memory to handle updated CAD software and the two 11”x17” printers can no longer communicate with the new network. Estimated cost for these printers are stated in our budget section.

c. The department has recently updated one of its computer labs by purchasing and installing 19 double- monitor computer stations. The new computers have been equipped with the necessary hardware to operate the latest building information modeling (BIM) and CAD software.

**External Conditions (such as state funding, accrediting agencies, advisory committees, postsecondary policy changes):**

**State Funding**:

The general contractors licensing board fee (#229001) are monies derived from the annual Alabama general contractor’s license dues. A percentage of all general contractor license fees are to be split among all accredited construction and engineering schools within the state. The size of this annual check depends on many fluctuating factors. The number of students graduating with a construction management degree and the number of general contractors purchasing and renewing their licenses each year are the two primary factors that determine our income to this account. These funds help to support the program and its activities.

**Accrediting Agencies**:

The American Council for Construction Education (ACCE) accredits the Department’s Construction Management Degree (CO59). ACCE accredits construction education programs in colleges and universities that request its evaluation and meet its standards and criteria. ACCE standards are ever evolving to keep department graduates performing at a high level. The standards are expected to require Student Learning Outcomes for each class in the upcoming years.

**Program Industry Advisory Committee (IAC)**:

The IAC for the CBST Department is active in meetings. This committee along with departmental faculty meets twice a year to discuss suggestions and ideas regarding improvement of the department and student learning outcome. The committee continues to grow and improve each year. The IAC is consists of national and local builders associations (GBAHB, NHE, AHB, AGC, CEFA), as well as, small, local to large national contractors and architecture firms (Doster Construction, Brasfield and Gorrie, Robins and Morton, DR Horton Homes, Harris and Doyle Homes). The IAC’s reputation and history of providing useful advice is a great resource that will continue to benefit the CBST students and the department as a whole.

**Department of Postsecondary Education Policy Changes**:

The Alabama Community College System (formerly Department of Postsecondary Education) has a new Board of Trustees that was appointed by the Governor and confirmed by the senate on May 27, 2015. New policies may develop that reflect changes within the Construction and Building Science Technology Program. The program and the college adheres to any and all policy and procedural changes as established by the Alabama Community College System.

**2013-2014 Accomplishments:**

This was a productive year for this department.

* Students participated in the annual residential construction management competition. Although they did not place as a winner of this competition like the previous time, they earned a great experience. They received an incredible knowledge in this industry and met with other contestants to exchange their ideas for future competitions. We look forward to competing in this competition again.

* Construction and Building Science students built two Handicap Ramps for two elderly disabled families in the area. One ramp was built in Fall Semester of 2013 and the other in Spring Semester of 2014. All the design work and the labor work involved for these ramps were executed by students of this department. It is one of this Department’s goals to stay involved in local community services and takes every opportunity to perform when such needs arise.
* The first annual progress report for the Construction Management accreditation was prepared in Spring Semester of 2014 and submitted the American Council for Construction Education (ACCE). The report was accepted and approved by ACCE. The acceptance and approval of this progress report testifies to the strong academics of this Department.
* All the classrooms lab computers were updated with the latest CAD software. This updates continue every time the need arise.
* Several local construction companies have been recruiting students for various construction positions. While the economic state of construction is improving, our department and its students are encouraged by positive industry predictions. The Department is encouraged and optimistic in growth of the programs in the upcoming years.
* The Department continues to attract highly qualified part-time/adjunct instructors who are motivated to teach and improve the courses they teach.
* The Construction and Building Science Technology department will continue to offer both the traditional and more technological courses relating to construction and architectural/civil education.
* The Department continues to set efforts to increase student and industry interactions. The Department will remain involved attending functions with the Greater Birmingham Association of Home Builders (GBAHB) and the Alabama Associated General Contractors Association (ALAGC). Such events have given the department much needed visibility that resulted in the hiring of several of our graduates.

**2014-2015 Accomplishments:**

The year 2015 was a productive year for the Construction and Building Science Technology Department:

* On January 5th, 2015 Mike Safavi was appointed as the permanent Program Coordinator for this Department. Mike brings decades of higher education teaching, administration, and construction and architecture industry experience with him. Transition in the Departmental leadership was successful.
* One of the Department computer labs located in HMB room 241 was updated with 19 double monitor up-to-date computer stations. Furthermore, these computers were loaded with updated CAD and Microsoft Project software. It is one of the Department’s goals to maintain updated and new software providing students with available industry technology.
* All the computers in HMB rooms 241 and 236 classrooms labs were updated with the latest CAD software, Microsoft Project, and Microsoft Office Suite. These computers soon will be loaded with On Screen Take off (OST), a construction estimating software. Microsoft Project and OST software were obtained free of charge as academic issues. This updates will continue every time the Department realizes such needs.
* CBST Department purchased four 42” commercial advertising TV monitors and hardware for recruitment purposes and to provide program information/updates. Three of these monitors have been installed in the Harold Martin Building and one to be used as a mobile unit to help with off campus recruitment. Positive feedback and comments have been received from current and incoming freshmen students.
* The Department applied and was accepted to be an academic member of the Associated Schools of Construction (ASC). This academic organization represents schools of construction internationally. The Construction Program at Jefferson State Community College is one the few Two-Year accredited programs that is now a member of this prestigious academic organization. This membership provides our construction program to have international exposure to other schools of constructions.
* The Construction Management Program applied and was accepted to establish an academic student chapter for Associated General Contractors of America (AGC). This national industry organization provides vast opportunities for the students at this Department. AGC offers a network of local and national contractors to students who can be potential employers of the graduates. It also offers a vast variety of academic scholarships to the qualified students that can assist in paying for tuitions, books, and other school expenses. Although the process for establishing this student chapter was lengthy, AGC student chapter membership bears no fees for the Department.
* Program Coordinator (Safavi) participated in the NCCER Instructor Certification Training Program. He received his certification from NCCER.
* Program Coordinator held meetings and telephone conversations with Tuskegee University regarding an Articulation Agreement between Jefferson State Construction Management Program and Tuskegee University Construction Science and Management (CSM). A final agreement was developed by both JSCC and TU. This agreement has been signed by both Tuskegee University and Jefferson State Community College administrations and now is in effect by both of these schools. By this agreement, qualified JSCC Construction Management graduates are now able to attend Tuskegee university CSM program as 3rd year students with Junior standing and continue to complete their Bachelor degrees in this discipline.
* Program Coordinator held several conversations with Auburn University representatives regarding an Articulation Agreement between Jefferson State Construction Management Program and Auburn University Building Science departments. A draft agreement was developed and reviewed but has not been executed or finalized. Communication is continuing between Jefferson State Community College Construction and Auburn University Building Science departments.
* Faculty attended the American Council for Construction Education (ACCE) Annual Conference in Louisville, Kentucky. This conference was predominantly intended to explain changes in the ACCE Accreditation process and requirements. Faculty attended extensive training, workshops, and meetings to apprehend such changes. These changes are to be implemented to all accredited construction programs effective year 2016.

**Unit Goals for 2015-2016**

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit Goals** | **Objectives** | **Method of Assessment** | **Additional Funding Required** |
| **1.) Increase enrollments in Construction and Building Science Technology due to the growth in demands of the construction industry. This must be done by advertising and recruiting efforts at the local High Schools and the community.**  ***Program Outcomes***    *1. 90% of employers surveyed will indicate that graduates were adequately prepared for entry level positions.*  *2. 80% of graduates will be employed in field, enrolled in college or in the military within one year of graduation.* | **a.)** Attend local High School’s Career Day and introduce the CBST Programs, the industry career potential and outcome.  **b.)** Create Dual Enrollment agreement with local High Schools.  **c.)** Advertisement via internet, high school print material, etc. | **a.)** Advertisement for CBST department must be an ongoing goal.  **b.)** The Program must be recognized and recommended by Local High School Career Counselors and local community industry leaders.  **c.)** CBST Department to enter into Dual Enrollment agreement with local High Schools. This will allow College credit for work completed at CBST while in High school.  **d.)** Local populace to recognize JSCC CBST department and its values via internet, local high school print material, etc. | **a.)** CBST faculty to travel local High Schools and attend their Career Days. Estimated Cost: $1,200 annually.  **b.)** Advertisement material needed for CBST Department:  -Annual cost of 3,000 for departmental brochures, posters, and mass potential students’ mail.  -Annual cost of $1,000 Local High Schools Career Counselors and faculty luncheon.  -Annual cost of $3,000 for advertisement via internet, local high school print material, etc. |
| **3.) Offer the latest computer/software technology available to the construction and architecture industries.**  ***Program Outcomes***  *1. 90% of employers surveyed will indicate that graduates were adequately prepared for entry level positions.*  ***Program Level Student Learning Outcomes:***  *1. Be able to solve construction management problems using mathematics, science and problem solving skills.*  *5. Be able to plan, direct and coordinate construction projects.* | |  | | --- | | **a.)** The hardware requirements within the department are depend upon the software requirements. | | **a.)** CBST Industry Advisory Board (IAC) along with the CBST faculty determines the adequacy of the department’s computer hardware and software twice a year during IAB meetings. | **a.)** Software Requirements for the department are:  - Autodesk (CAD)  ($6,465.5 annually)  - QuickBooks Pro  ($3,000 annually) |
| **4.) Explore and/or develop online or hybrid course(s) in Construction and Building Science to accommodate for a wider variety of students.**  ***Program Level Student Learning Outcomes:***  *1. Be able to solve construction management problems using mathematics, science and problem solving skills.*  *2. Function effectively as a team member or as the leader of a team.*  *3. Possess an understanding of professional and ethical responsibilities present in construction management.*  *4. Be able to communicate effectively using written and verbal assignments.*  *5. Be able to plan, direct and coordinate construction projects.* | **a.)** Explore, identify, and recommend CBST course(s) that can be offered and taught totally or partially online. | **a.)** CBST Industry Advisory Board (IAC) along with the CBST faculty, during its annual meetings, discuss and recommend CBST course(s) that would be appropriate to be offered as online or as hybrid course(s). For hybrid courses students will be required attending classes to some extent and, be sustained by internet for the remaining of the course information.  b.) CBST faculty, will determine the “Program Level Student Learning Outcomes” for such course(s). | **a.)** CBST faculty will determine the adequacy and requirements of the department’s computer hardware and software in order to develop such course(s).  **b.)** Any requirement fornew or updatedtechnology will be identified by faculty and ordered by Program Coordinator. |

**Unit Goals for 2016-2017**

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit Goals** | **Objectives** | **Method of Assessment** | **Additional Funding Required** |
| |  | | --- | | **1.) Include and offer a mix of foundational and progressive construction and architecture/Civil courses to prepare students for real world of industry experiences.** |   ***Program Outcomes***  *1. 90% of employers surveyed will indicate that graduates were adequately prepared for entry level positions.*  ***Program Level Student Learning Outcomes:***  *2. Function effectively as a team member or as the leader of a team.*  *3. Possess an understanding of professional and ethical responsibilities present in construction management.* | **a.)** Review of program courses by students, instructors and industry Advisory Board (IAB) is needed to ensure the department is meeting the needs of industry.  **b.)** Curriculum changes are to be identified by the department, the IAC, and approved by the Dean and the Curriculum Committee. | **a.)** Student Learning Outcomes (SLOs) are completed each semester in every CBST course. This is also a new American Council for Construction Education (ACCE) Accreditation requirement.  **b.)** The Program Coordinator is responsible for distributing, organizing and reviewing SLOs each semester.    **c.)** SLOs are reviewed annually by the IAC at the Spring meeting.    d.) Adjustments to CBST courses and curriculum are reviewed, requested and then implemented. | **a.)** Two Industry Advisory Committee meetings annually, one in Fall and one in Spring Semester.  ($500.00 annually) |
| **2.) Update all lab equipment and spaces to meet faculty and student needs.**  ***Program Level Student Learning Outcomes:***  *1. Be able to solve construction management problems using mathematics, science and problem solving skills.*  *2. Function effectively as a team member or as the leader of a team.*  *5. Be able to plan, direct and coordinate construction projects.* | **a.)** Identify equipment needed for concrete testing lab, wood shop, and surveying lab on annual basis.  **b.)** Identify material and supply needed for concrete testing lab, wood shop, and surveying lab on annual basis. | Equipment, material and supply will be requested by faculty as needed and ordered by the Program Coordinator. | a.) Required material and supplies:  - Concrete testing supplies: $1,000 annually.  - Printer lab: $3,000 annually.  - Wood shop tools, safety equipment, and supplies:  $6,000 annually. |
| **3.) Offer the latest computer/software technology available to the construction and architecture industries.**  ***Program Outcomes***  *1. 90% of employers surveyed will indicate that graduates were adequately prepared for entry level positions.*  ***Program Level Student Learning Outcomes:***  *1. Be able to solve construction management problems using mathematics, science and problem solving skills.*  *5. Be able to plan, direct and coordinate construction projects.* | |  | | --- | | **a.)** The hardware requirements within the department are depend upon the software requirements. | | **a.)** CBST Industry Advisory Board (IAC) along with the CBST faculty determines the adequacy of the department’s computer hardware and software twice a year during IAB meetings. | **a.)** Software Requirements for the department are:    - Autodesk (CAD)  ($6,465.5 annually)  - QuickBooks Pro  ($3,000 annually) |
| **4.) Secure Articulation Agreements with local and near proximity out of state universities that offer Construction Bachelor Degrees.**  ***Program Outcomes***  *2. 80% of graduates will be employed in field, enrolled in college or in the military within one year of graduation.* | **a.)** Universities that offer Construction Bachelor Degree in neighboring states will be identified.  **b.)** Line of communication will be established with such universities and, their potentials will be explored.    **c.)** Continue to communicate with Auburn University Building Science School regarding an Articulation Agreement between the two schools. | a.) JSCC articulation agreement with Tuskegee University’s Construction Science and Management (CSM) will be utilized as a sample instrument to introduce CBST intentions for such Articulation Agreements. | a.) Faculty travel to universities in neighboring states ($2,000) |