

Department Plan
Long Beach City College
Dept - Drafting/Architecture

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Mission: The Mission of the Mechanical and Architectural Design Department is to create an educational environment where students can achieve their individual educational and career goals by providing the necessary knowledge and skills to enter the building design field or mechanical design field of their choice. The department strives to provide our students with the knowledge and skills in the latest technologies, adherence to current industry standards and to significant industry trends.

Description: The department is comprised of three areas of concentration. The Architecture Program is focused on the successful completion of our AS transfer program and subsequent student admission to a bachelor degree program in a related field. The Drafting Program focuses on two occupational areas, Mechanical Design and Drafting and Architectural Design and Drafting. The Tool Design Program is currently being revamped to better meet the needs of our students and industry. Our student's goals include; transferring, immediate employment upon program completion and upgrading the skills of incumbent workers. We have a wonderfully diverse group of faculty that enhances our students experience. The department offers two AS degrees in architecture and two AS degrees in drafting. We offer nine certificates.

Internal Conditions (see Help for list): Lack of full time faculty has caused class scheduling difficulties for years. Our 10.5 block courses exceed the amount adjunct faculty can teach and therefore are split between two instructors. This effects retention and enrollment. The lack of a third dedicated classroom/lab limits growth and the ability to schedule new classes to meet the needs of our students and industry.

External Condition- Advisory Committee Input: Our advisory committee tells us the profession of architecture is changing the basic historical premise of project delivery. There is rapid movement from traditional design and drawing methodologies to building information modeling (BIM). We have begun to make this change to allow our students to keep current. The Mechanical Program is currently being redeveloped to better align with the needs of industry. Advisers have informed us they need their employees to possess design skills, a better understanding of manufacturing processes and industry standards.

External Condition- Community Outreach/Partnership: The department is working closely with the Long Beach Unified School District, LBUSD, to create career paths from high school to the bachelorette degrees. We are in the process of discussions with California State University L.A. to attempt to create articulation agreements for our classes. In light of SB 1440, we believe it will be necessary to recreate our architectural and mechanical programs to better align with four year institutions.

External Condition- Industry & Labor Market Trends: The state of the economy has caused a reduction in the work force and employment opportunities in both architecture and mechanical/industrial areas. This has caused an increase in students returning to school for retraining in the latest technology. Architecture is trending toward using BIM for as opposed to traditional drafting methods. The mechanical/industrial industry is trending toward using 3D design and rapid prototyping as opposed to traditional drafting methods. Industry is infusing sustainable concepts and materials into all aspects of building design and design for manufacturing.

External Conditions- Other : The state of the economy has caused a reduction in amount of space available for transfer students at upper division schools. We have seen an increase in professionals returning to the classroom for training on the latest technology/software we currently possess.

Faculty & Staff : Two full time faculty, one classified position and six part-time faculty.

Names & Titles of Program Adrian Erb, Department Head

Review Participants: Brent Sears, Instructor
Instructional Aide

2009-2010 Accomplishments: Three BIM classes have been created and have been approved by curriculum committee. These classes will be taught in the fall of 2011. We have incorporated Green Technologies into curriculum for Archt. 60,61, and 62. The department participated in first ever Green Academy to educate community how sustainable trends, what sustainable means, and how to incorporate sustainability in our community. An Introduction to Sustainability class was created. We have completed SLO Assessment plans for all SLOs in all classes in the Department and met deadlines for Assessment. We have purchased new HD projection systems with dual projectors and projector screens to improved instruction in our classes for our growing department. Faculty members participated in Green collaborative Grant to write curriculum, infuse Green and Sustainable topics in current classes. Meetings to create articulation agreements or credit by exam are progressing slowly with LBUSD. Introduced SolidWorks to Draft 60. Reinroduce Draft 60 to the mechanical program after 10 years. Instructors received Certification for Revit and AutoCAD from Autodesk. and .

Faculty have completed training classes in SolidWorks software an important mechanical industry software package.

Purchased 11 X 17 printers to reduce waste of large format paper.

Hosted BIM training classes for ERD in our department lab.

2010-2011 Accomplishments: Students successfully graduated and entered upper division programs at the Southern California Institute of Architecture (SCI-ARC) and California State University of Los Angeles.

Students won various awards at "Design Village", a National Competition held at the California Polytechnic University of San Luis Obispo.

Awarded numerous amounts of Associates of Science Degrees and Programs Certificates of Accomplishments. Received room B303 for exclusive use which is currently being retrofitted to house lectures, model building, manual drafting, 3D Rapid Prototyping equipment and computers for students usage.

Formalized and finalized an Articulation Agreement between LBUSD and the LBCC Architecture Department.

Graduate school candidates are involved in lectures of careers post LBCC.

An upgrade for a Rapid Prototyping machine was approved.

Goal: Expand and Modernize

Expand and modernize our Tool Design, Mechanical Design and Architectural Programs. Include faculty training to use technology, providing students with the skills needed to enter technology fields, create an appropriate safe environment that simulates industry through the use of state of the art instructional equipment. Build close relationships with industry to provide internships, job shadowing and mentoring programs to expand student experience and faculty awareness.

Year: 2011 - 2012

Start Date: 10/04/2010

End Date: 05/30/2012

Goal Status: In Progress

Goal Priority: High

Rationale: Both Mechanical and Architectural fields are rapidly changing production and delivery methods.

Strategies: Investigate the latest technologies utilized in industry. Research and apply for available grants for equipment and software. Reclaim classrooms that have been removed from our department inventory. Create a "state of the art" additive and subtractive Rapid Manufacturing lab/model shop to introduce advanced manufacturing skills in B303. Our program is constantly growing. We have more students this semester than last semester (and this has been the case for the last few years), however due to budget cuts, our program has not been allowed to grow (add significantly more classes) and due to campus construction, our classroom / lab space has been shrinking. Create safe work like environments in our labs and classroom emulating industry.

Responsible Parties: Adrian Erb, Department Head

Campus supported by this LAC

goal:

Specify if goal is for Department/ Program

department or sub-area:

Name of sub-area, if Tool Design, Architecture and Mechanical Programs

applicable:

Other Area impacted by this Facilities

goal:

Other Area(s) impacted by Grants

this goal:

Level of Support Needed: School or VP

Related Resources Needed

* Resources Needed Name: Additional Classrooms and storage space.

Resources Needed Return rooms B301 and B303 to the drafting department inventory of rooms (Labs).

Description: Provide electrical and network connections for computer lab and equipment.

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2010 - 2011

Duration: Both (i.e., initial & maintenance costs)

Estimated Cost: 12000.0000

Type of Resource Facilities

Requested:

Justification for Resource Classroom needs to reflect current need for technology. Needs to be retrofitted with electrical and network wiring

Request: to function as a lab.

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: B300 Safety Issues

Resources Needed Carpeting in B300 is worn and torn and is a trip hazard for our students and faculty. Replace carpeting for a safe environment.
Description: environment.

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: One-time

Estimated Cost: 5000.0000

Type of Resource Facilities

Requested:

Justification for Resource Safety Hazard

Request:

Department Code: 095300 Drafting

Requested Funding Source: General Fund

* Resources Needed Name: Computers Needed for B301

Resources Needed 35 high end computers: intel i7, 880 or better, 16 gig ram, 1 gig 3D video card, dual monitors, keyboards, mice for lab in B301
Description: lab in B301

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 70000.0000

Type of Resource Equipment

Requested:

Justification for Resource To offer full schedule of classes.

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Computers Needed for B303

Resources Needed 35 high end computers: intel i7, 880 or better, 16 gig ram, 1 gig 3D video card, dual monitors, keyboards, mice for lab in B303
Description: lab in B303

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: One-time

Estimated Cost: 70000.0000

Type of Resource Equipment

Requested:

Justification for Resource To offer full schedule of classes.

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Drafting Chairs for B301

Resources Needed 35 adjustable height drafting chairs for B301
Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 14700.0000

Type of Resource Equipment

Requested:

Justification for Resource Setting up new lab in B301.

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Drafting Chairs for B303

Resources Needed 35 adjustable height drafting chairs for B303
Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: One-time

Estimated Cost: 14700.0000

Type of Resource Equipment

Requested:

Justification for Resource Setting up new lab in B303.

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Drafting Tables for B301

Resources Needed 35 Computer desks with tilt-up drafting area.

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 24500.0000

Type of Resource Equipment

Requested:

Justification for Resource Setting up new lab in B301.

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Drafting Tables for B303

Resources Needed 35 Computer desks with tilt-up drafting area.

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: One-time

Estimated Cost: 24500.0000

Type of Resource Equipment

Requested:

Justification for Resource Setting up new lab in B303.

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Equipment Maint. & Repair budget

Resources Needed Allot a larger budget for both warranties for new equipment purchases & maintenance contracts for existing active

Description: equipment

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: On-going

Estimated Cost: 12000.0000

Type of Resource Other

Requested:

Justification for Resource It's much more cost effective to purchase an extended warranty on a large ticket item than having to replace the

Request: machine over and over. The current repairs budget allots for 1, maybe 2 machines to be repaired annually.

Authorizing warranty purchases and opening up the repairs budget a bit more would really save us money in the long run by not having to purchase the same type of new machine each year due to lack of regular maintenance and costly repairs.

Department Code: 095300 Drafting

Requested Funding Source: General Fund

* Resources Needed Name: HD Projection Systems for B300 and B302 with appropriate support equipment and power.

Resources Needed Mount HD Projection Systems in B300 and B302 with appropriate support equipment and power. We have

Description: already purchased the projectors and screens but are waiting for funds to appropriately mount them in a manner that will allow us to fully utilize the capabilities of the equipment.

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: One-time

Estimated Cost: 50000.0000

Type of Resource: Facilities

Requested:

Justification for Resource: We have already purchased the projectors and screens but are waiting for funds to appropriately mount them in

Request: a manner that will allow us to fully utilize the capabilities of the equipment.

Department Code: 095300 Drafting

Requested Funding Source: General Fund

* Resources Needed Name: Middle Skills disciplines

Resources Needed: Investigate possibly adding new middle skill disciplines to our current Architectural & Drafting program by

Description: collaborating with related Trades departments for integrated academic programs such as Engineering Technology, Civil Drafting, Construction Management, & Industrial Design.

Inter-Level/ VP Level Group: NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 40000.0000

Type of Resource: Personnel - Faculty

Requested:

Justification for Resource: Final Goal: Establish an A.S. and Transfer program curriculum to the 4-year universities for each discipline in

Request: compliance to SB1440 goals. Costs estimated at \$10,000 each program.

Department Code: 095300 Drafting

Requested Funding Source: Grants

* Resources Needed Name: Modernize B301

Resources Needed: Electrical and network up grade work and materials to room B-301 for 35 new computers and one projector

Description:

Inter-Level/ VP Level Group: NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 3000.0000

Type of Resource: Equipment

Requested:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Modernize B303

Resources Needed: Electrical and network up grade work and materials to room B-303 for 35 new computers and one projector

Description:

Inter-Level/ VP Level Group: NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: One-time

Estimated Cost: 3000.0000

Type of Resource: Equipment

Requested:

Justification for Resource: Setting up new lab in B303.

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: New Faculty for expanding program

Resources Needed: Hire 3 Full time Faculty (2 Mechanical Instructors, 1 Architecture), 2 Vocational Technicians, 2 part time

Description: Instructional Aides, and 2 Student Assistants

Inter-Level/ VP Level Group: NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: On-going

Estimated Cost: 100000.0000

Type of Resource: Personnel - Classified/ Manager

Requested:

Justification for Resource: expanding department programs. See Middle Skills goal

Request:

Department Code: 095300 Drafting

Requested Funding Source: General Fund

* Resources Needed Name: New Technologies for 3D Printing

Resources Needed Acquire state of the art FDM machines, laser cutters, CNC mills and routers. Dedicated support computers and

Description: software.

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: Both (i.e., initial & maintenance costs)

Estimated Cost: 250000.0000

Type of Resource Equipment

Requested:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: OMNI Locks to labs on 3rd floor of B building

Resources Needed Secure all doors that permit access to B301, B302 & B303 labs with OMNI locks instead of the standard issued

Description: Master key that is available to any staff member.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 10000.0000

Type of Resource Equipment

Requested:

Justification for Resource Protect tax payer's investments in our labs. Hundreds of thousands of dollars worth of equipment are stored in

Request: our labs. 3 labs on the 3rd floor can be accessed with a general Master key that anyone that has a mailbox or roof access to the B building. This building is currently home to at least 3 different departments, many of which have unneeded access to this department's labs and equipment. OMNI locks allow for controlled access to sensitive equipment areas, accountability amongst staff and security against human error ensuring that the lab is protected upon exit.

Department Code: 095300 Drafting

Requested Funding Source: General Fund

* Resources Needed Name: PCC Outreach

Resources Needed Make a drafting course available to students in the PCC community in an effort to support other industrial trades

Description: such as welding, sheet metal & general construction.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 6000.0000

Type of Resource Personnel - Faculty

Requested:

Justification for Resource Creates more availability and flexibility for students in other Trades departments to learn the latest technical

Request: software. Fosters an inter academic learning environment as well as creating a presence for the architecture and drafting department on our sister campus.

Department Code: 095300 Drafting

Requested Funding Source: General Fund

* Resources Needed Name: Projector and Projector Screens B301

Resources Needed One high output computer, projector and screen for B301.

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 70000.0000

Type of Resource Equipment

Requested:

Justification for Resource Setting up new lab in B301.

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Projector and Projector Screens B303

Resources Needed One high output computer, projector and screen for B303.

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: One-time

Estimated Cost: 7000.0000

Type of Resource Equipment

Requested:

Justification for Resource Setting up new lab in B303.

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Reading Monitor in labs

Resources Needed Furnish 70 second basic flat panel monitors for computers in B300 & B302.

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: One-time

Estimated Cost: 10000.0000

Type of Resource Equipment

Requested:

Justification for Resource A second monitor would allow students effectively navigate through drafting assignments by providing a place for

Request: their instruction or research to be conducted. This also eliminates the need for printing out assignment instructions thus saving the department's resources as well as affording the student the option of purchasing a PDF copies of their required textbook. Benefits include saving the environment from further resource exhaustion, saving the student money since PDFs can be cheaper than physical books as well as increasing productivity in class since the instructor will no be waiting for the student's textbook to arrive in the mail.

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Replace 2 Large Format Plotters

Resources Needed We need to replace 2 larger format plotters (HP DesignJet 800ps & HP DesignJet 650C) complete with warranty

Description: options to promote a state of the art Computer Aided Drafting lab.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2010 - 2011

Duration: Both (i.e., initial & maintenance costs)

Estimated Cost: 15000.0000

Type of Resource Equipment

Requested:

Justification for Resource It is in agreement with the latest trend of industry to use large format plotters. We want to create an environment

Request: that is a simulation of the work place. Students can learn how to produce and manage large format drawings.

Department Code: 095300 Drafting

Requested Funding Source: VTEA

Goal: Sustainability/Green Architecture

To integrate sustainability "Green" concepts into various courses as well as create a stand alone Intro course that would be interdisciplinary for the Architecture and Construction Trades.

Year: 2010 - 2011

Goal Status: In Progress

Goal Priority: Medium

Rationale: Sustainability in architecture / design is being pursued strongly by the profession and therefore should be integrated into our existing and new courses. This is a recommendation of our advisory board.

Strategies: Various faculty need to receive LEED training to be able to impart the information to our students.

Responsible Parties: Full and part time faculty

Campus supported by this LAC

goal:

Specify if goal is for Area of Concentration

department or sub-area:

Level of Support Needed: Department

Related Resources Needed

* Resources Needed Name: Curriculum Development

Resources Needed Rewrite courses to include sustainability concepts and topics. Create new classes as needed.

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2010 - 2011

Duration: On-going

Estimated Cost: 10000.0000

Type of Resource Other

Requested:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Green Certificate

Resources Needed Create certificates to reflect knowledge of green/ sustainable concepts and topics.

Description:

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: One-time

Estimated Cost: 3000.0000

Type of Resource Other

Requested:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

Goal: Integrate Academics

Strengthening the academic and career and technical skills in the Architecture and Mechanical Programs through the integration of academics within our classes and programs.

Year: 2010 - 2011

2011 - 2012

Start Date: 09/20/2010

End Date: 09/30/2012

Goal Status: In Progress

Goal Priority: High

Rationale: Our advisory board and industry professional organization have clearly stated that they need employees with SCANS skills, math and science skills and knowledge, critical thinking skills and the ability to communicate effectively.

With the passage of SB 1440, we intend to revamp our AA degrees to better align with the universities contributing to greater success of our students. Our programs need to "look like" the first two years of a bachelor degree. Therefore, we will be infusing higher level academics into our courses and programs

Strategies: Create articulation agreements with the university. Check our inventory of classes to assure they are on par with the four year institutions. Make appropriate updates to our curriculum guides.

Responsible Parties: Department Head and full time faculty

Campus supported by this LAC

goal:

Specify if goal is for Department/ Program

department or sub-area:

Other Area impacted by this Other

goal:

Level of Support Needed: Department

Related Resources Needed

* Resources Needed Name: Academic Integration

Resources Needed Will rewrite curriculum to integrate academics.

Description:

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 10000.0000

Type of Resource: Other

Requested:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Establish Articulation bridge with High Schools & Universities

Resources Needed Identify & integrate rubrics, SLOs, universal assessment tests, online tests, and department website to meet

Description: articulation agreement standards.

Inter-Level/ VP Level Group: NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: On-going

Estimated Cost: 20000.0000

Type of Resource: Software

Requested:

Justification for Resource Local high school offer programs such as ACE that are supposed to feed into/skip ahead in our program

Request: however the current students coming from that program do not possess the complete knowledge and skills to jump ahead in our program. Streamlining our position and standards would facilitate the communication between institutions so that their students are prepared to jump ahead in our program. The same would be beneficial for our students transferring into 4 year universities so that their time and hard work does not have to be redone and Cal State university programs such as Industrial Tech at CSULA and Construction Management and Interior Design at CSULB

Department Code: 095300 Drafting

Requested Funding Source: Grants

* Resources Needed Name: SB1440 Compliance

Resources Needed Update current programs & write new programs to meet SB1440 transfer requirements

Description:

Inter-Level/ VP Level Group: NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 10000.0000

Type of Resource: Personnel - Faculty

Requested:

Justification for Resource meet SB1440 requirements

Request:

Department Code: 095300 Drafting

Requested Funding Source: Grants

Goal: CTE Pathway

Link the Architecture and Mechanical Programs with LBUSD and the postsecondary institution.

Year: 2010 - 2011

2011 - 2012

Start Date: 09/20/2010

End Date: 09/30/2012

Goal Status: In Progress

Goal Priority: High

Rationale: In accordance with the LBUSD promise of education. Support students and involved them in the college experience here at LBCC. Create awareness of SB1440 and the benefit of SB1440 to students in the Architecture and Mechanical Programs seeking transfer.

Strategies: Visit different schools in LBUSD as well as host tour and events on our campus and department to cultivate interest in our school.

Responsible Parties: Department Head

Campus supported by this LAC

goal:

Specify if goal is for Educational Pathway

department or sub-area:

Level of Support Needed: School or VP

Related Resources Needed

* Resources Needed Name: Articulation

Resources Needed Create Articulation agreements with local high schools that are part of LBUSD.

Description:

Inter-Level/ VP Level Group Not Approved

Decision:

Fiscal Year: 2010 - 2011

Duration: On-going

Estimated Cost: 5000.0000

Type of Resource Other

Requested:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Articualtion Bachelorette

Resources Needed Create Articulation agreements with four year universities.

Description:

Inter-Level/ VP Level Group Not Approved

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 5000.0000

Type of Resource Other

Requested:

Justification for Resource SB 1440

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Long Beach Promise collaboration

Resources Needed Clearly establish what paths (course, training/hours needed, etc.) are acceptable to seamlessly feed from a

Description: LBUSD high school to LBCC to Cal State LB.

Collaboration between LBCC departments is key for this transition.

Offer key CTE LBCC courses on LBUSD high school campus for CTE transition

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 10000.0000

Type of Resource Personnel - Faculty

Requested:

Justification for Resource Honor the newly signed articulation agreement to the best of our ability

Request:

Department Code: 095300 Drafting

Requested Funding Source: Grants

* Resources Needed Name: SAM code training

Resources Needed Training on SAM codes and how to properly classify our courses

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 10000.0000

Type of Resource Professional Development

Requested:

Justification for Resource properly code courses. ensure proper accountability and data tracking so that funding is dispersed in appropriate

Request: areas.

Department Code: 095300 Drafting

Requested Funding Source: Grants

Goal: Provide Strong Learning Experience

Provide students with strong experience in our programs and understanding of all aspects of an industry.

Year: 2010 - 2011

2011 - 2012

Start Date: 09/20/2010

End Date: 09/30/2012

Goal Status: NEW

Goal Priority: High

Rationale: The need for our students to use our labs outside of their class time is crucial for our students. Projects assigned to the student can be difficult for students to complete if they do not have the necessary resources at home. Providing an open lab would help a student achieve their educational goal.

Strategies: Research requirements for an open access lab.

Responsible Parties: Department Head

Campus supported by this LAC

goal:

Specify if goal is for Department/ Program

department or sub-area:

Level of Support Needed: School or VP

Related Resources Needed

* Resources Needed Name: Instructional Aides

Resources Needed Additional Instructional Aides and Vocational Technicians would help students to have a strong learning

Description: experience. Providing additional support for learning our large classes.

Inter-Level/ VP Level Group Not Approved

Decision:

Fiscal Year: 2012 - 2013

Duration: On-going

Estimated Cost: 25000.0000

Type of Resource Personnel

Requested:

Justification for Resource Classes have a larger amount of students with all different levels of learning abilities. Instructional Aides would

Request: provide support in class to help all students have a strong learning experience. Instructional Aides would also be to provide support outside of class in the way of tutoring ensuring that all our student become a success story regardless of the learning abilities.

Department Code: 095300 Drafting

Requested Funding Source: General Fund

* Resources Needed Name: Mentors

Resources Needed To help students succeed, involve industry professionals who would allow our students to job shadow, provide

Description: their experience through guest lectures and internships.

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 0.0000

Type of Resource Other

Requested:

Department Code: 095300 Drafting

Requested Funding Source: Other

* Resources Needed Name: Personnel

Resources Needed Have staff in lab to provide additional support ensuring student success.

Description:

Inter-Level/ VP Level Group Not Approved

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 25000.0000

Type of Resource Personnel

Requested:

Department Code: 095300 Drafting

Requested Funding Source: General Fund

* Resources Needed Name: State of the Art Equipment and Software

Resources Needed Provide students with a state of the art lab, equipment and software.

Description:

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: Both (i.e., initial & maintenance costs)

Estimated Cost: 100000.0000

Type of Resource Equipment

Requested:

Justification for Resource In order to better emulate industry, provide a lab simulation of how industry works though the use of the latest technologies.

Department Code: 095300 Drafting

Requested Funding Source: VTEA

Goal: Provide Professional Development Programs

Provide in-service and pre-service professional development programs to faculty, on topics including effective integration of academics and CTE, effective teaching skills .

Year: 2010 - 2011

2011 - 2012

Start Date: 09/20/2010

End Date: 09/30/2012

Goal Status: NEW

Goal Priority: High

Rationale: To provide relevant, up-to-date training for LBCC faculty, the faculty at our feeder schools (LBUSD) and local industry (with the goal of networking and leveraging resources with industry as well). Professional development should also ensure that faculty and personnel stay current with all aspects of an industry; involve internship programs that provide relevant business experience; and train faculty in the effective use and application of technology.

Strategies: Identify professional development opportunity needs. Obtain funding for training series. Obtain sponsorships from industry. Advertise.

Responsible Parties: Department Head

Specify if goal is for Department/ Program

department or sub-area:

Level of Support Needed: School or VP

Related Resources Needed

* Resources Needed Name: Expand Software to meet current Industry Trends

Resources Needed Acquire ArcGIS and other relevant industry software

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 10000.0000

Type of Resource Software

Requested:

Justification for Resource meet current industry software trends to make our students competitive in the middle skills job market

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Integrate SCAN into curriculum

Resources Needed Integrate Secretary Commission on Achieving Necessary Skills goals into current and future curriculum.

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 10000.0000

Type of Resource Personnel - Faculty

Requested:

Justification for Resource Comply with SCAN goals

Request:

Department Code: 095300 Drafting

Requested Funding Source: Grants

* Resources Needed Name: Professional Development

Resources Needed Training, conferences, seminars,

Description:

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 10000.0000

Type of Resource Other

Requested:

Justification for Resource In order to ensure student success, our faculty need to be trained in latest technologies, hardware, software,

Request: industry trends, and educational issues and their impact in the classroom.

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Saturday Workshops

Resources Needed Need an instructor and a lab to conduct Saturday Workshops

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: On-going

Estimated Cost: 5000.0000

Type of Resource Personnel - Faculty

Requested:

Justification for Resource Saturday Workshops to fill in gaps for all aspects of industry

Request:

Department Code: 095300 Drafting

Requested Funding Source: Grants

Goal: Develop and implement evaluations of the Architecture and Mechanical programs

Develop and implement evaluations of the Architecture and Mechanical programs, including an assessment of how the needs of special populations are being met.

Year: 2010 - 2011

2011 - 2012

Start Date: 09/20/2010

End Date: 09/30/2012

Goal Status: NEW

Goal Priority: High

Rationale: To improve programs and contribute to higher student success.

Strategies: Investigate industry trends and implement feedback from Advisory Board committee regarding essential skills, soft skills and industry set of skills into our program. Research the pathway from our programs to the four year universities.

Responsible Parties: Department Head

Specify if goal is for Department/ Program

department or sub-area:

Level of Support Needed: Department

Related Resources Needed

* Resources Needed Name: Assessment Tools

Resources Needed Need to develop tests, rubrics, and lessons that accurately reflect the learning that students achieve.

Description:

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 10000.0000

Type of Resource Other

Requested:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Expand Assessment

Resources Needed Expand student assessment

Description: Expand prospective faculty assessment

Establish incoming faculty assessment

Assess all class with rubric descriptions

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2012 - 2013

Duration: One-time

Estimated Cost: 10000.0000

Type of Resource Personnel - Faculty

Requested:

Justification for Resource Meet all LB Promise and SB 1440 transfer requirements

Request:

Department Code: 095300 Drafting

Requested Funding Source: Grants

* Resources Needed Name: SLOs to meet industry needs

Resources Needed Need to develop SLOs to create student success in the workforce and in higher education.

Description:

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 10000.0000

Type of Resource Other

Requested:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

Goal: Provide services and activities that are of sufficient size, scope and quality to be effective

The Architecture and Mechanical programs will provide services and activities that are of sufficient size, scope and quality to be effective in student success in the job market or transfer to the university.

Year: 2010 - 2011

2011 - 2012

Start Date: 09/20/2010

End Date: 09/30/2012

Goal Status: NEW

Goal Priority: High

Rationale: To ensure student success, students need additional services and activities to improve their quality of learning.

We have diverse students with varied goals ranging from transfer to the university, certificate completion to prepare for jobs, and incumbent workers needing to upgrade skills to maintain jobs or seek advancement.

Strategies: Provide seminars, short lectures and trainings.

Responsible Parties: Department Head

Specify if goal is for Department/ Program

department or sub-area:

Level of Support Needed: Department

Related Resources Needed

* Resources Needed Name: Articulation Agreements

Resources Needed Course substitution, Transfer requirements, course facilitation, undergrad requirements and fulfillment with High

Description: schools and CSU institutions will be reevaluated and updated. The Industrial Technology & various Engineering degrees at CSULA, and Construction Management & Interior Design degrees at CSULB will be updated. New certificate programs, undergrad programs, transfer programs, Associate programs, will be offered. New curricula and instructional materials will be developed. SB 1440 and advisory board will be updated.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 100000.0000

Type of Resource Other

Requested:

Justification for Resource Articulation Agreements with applicable institutions have been allowed to decay and become obsolete. Dialogues

Request: and communication with 4 year institutions and High schools has lapsed. Because of this, the Drafting department must catch up to industry standards now being taught by Universities.

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Core Indicators

Resources Needed Accommodations for students with special needs. Post-student success will also be tracked and recorded.

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 30000.0000

Type of Resource Other

Requested:

Justification for Resource individuals who complete Drafting programs must be tracked in order to document success of Drafting Program.

Request: Post-students jobs must be noted. Acceptance into 4 year institutions must be noted. Students with special needs must succeed at a comparable rate as general student population.

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Expanded Course Offerings

Resources Needed Applied Math courses for Architecture and Industrial/Mechanical Drafting students, Document Print reading

Description: courses: "For Construction" Architecture Blue Print reading, "For Industry" Detail and Assembly Drawing reading for Industrial/ Mechanical students. A Construction Management Program will be created and Implemented-- courses include but are not limited to: Contract Negotiation, Project Scheduling, Budgeting, etc. an Autodesk Inventor class will be offered. Faculty will be hired in order to facilitate the Inventor courses. CNC Programming courses will be offered. These CNC courses will utilize CAD drawings. A faculty member will be hired to facilitate the CNC courses. Open Lab time will be investigated. A Civil Engineering program will be investigated, researched, and implemented. Faculty will be researched in order to facilitate this new program. Architectural G.I.S. courses will be offered.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 80000.0000

Type of Resource Personnel - Faculty

Requested:

Justification for Resource The changing landscape of Drafting require both a generalized understanding as well as specific focuses in the

Request: Architectural, Industrial and Engineering trades.

Department Code: 095300 Drafting

Requested Funding Source: General Fund

* Resources Needed Name: Maintenance Budget

Resources Needed The Drafting department will acquire maintenance contracts for all department equipment. The department enter

Description: into EXTENDED WARRANTIES on all new equipment purchases and extend warranties on existing equipment where applicable.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 12000.0000

Type of Resource Other

Requested:

Justification for Resource see Repair Recourse under Modernization Goal.

Request:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Open-Lab Time

Resources Needed Create a procedure for Open-Lab time. A lab assistente will be hired. A member of the faculty will be scheduled

Description: for Open-Lab time to be on hand for students.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 40000.0000

Type of Resource Personnel - Faculty

Requested:

Justification for Resource due to limited space, students find that they lack adequate time to complete course assignments do to other

Request: class sessions being held, using up operation hours for Drafting facilities.

Department Code: 095300 Drafting

Requested Funding Source: General Fund

* Resources Needed Name: SAM codes

Resources Needed Update all SAM codes for placement in Department plan. This update will dictate how classes are codes (A-E)

Description: and will attempt to "fix" coding issues with tracking and funding issues.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 2000.0000

Type of Resource Other

Requested:

Justification for Resource Improper SAM coding leads to confusion over course classification, funding issues, and scholastic data to be

Request: issued to wrong locations.

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Seminar and Training Sessions

Resources Needed Short seminars and training sessions outside the schedule class time to provide students with body of knowledge

Description: that is not currently being taught in curriculum

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 3000.0000

Type of Resource Personnel

Requested:

Justification for Resource Students require additional training in content not currently part of program curriculum in order to be successful

Request: in industry and in higher education.

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Universal Access and Accommodations

Resources Needed Students with special needs will receive the same access and opportunities as general student population.

Description:

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 9000.0000

Type of Resource Other

Requested:

Department Code: 095300 Drafting

Requested Funding Source: General Fund

Goal: Success of Special Populations

Provide an environment to prepare special populations to succeed in our high-skill, high-wage and high-demand occupations that our programs teach.

Year: 2010 - 2011

2011 - 2012

Start Date: 09/20/2010

End Date: 09/30/2012

Goal Status: NEW

Goal Priority: High

Rationale: Provide an equal opportunity to all students and including non-traditional students in our field of industry.

Strategies: Create support, additional instruction, and special tools for students with special needs, single parents and displaced homemakers.

Responsible Parties: Department Head

Specify if goal is for Department/ Program

department or sub-area:

Level of Support Needed: Department

Related Resources Needed

* Resources Needed Name: Gainful Employment Act / Post-Student Success

Resources Needed Concentration of resources for placement of Disabled vets and nontraditional Trades individuals: women, disabled persons, and students dealing with socio-economic issues and diverse ethnicity.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 40000.0000

Type of Resource Other

Requested:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Specialized Equipment

Resources Needed acquisition of specialized equipment, tools, and testing for students with special needs. Tutoring will also be

Description: provided in order to reinforce student success for individuals with yearly incomes below \$10,000.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 20000.0000

Type of Resource Other

Requested:

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Specialized Tools

Resources Needed Acquire specialized tools for students with special needs.

Description:

Inter-Level/ VP Level Group NEW for Fiscal Yr 2011-2012

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 4000.0000

Type of Resource Equipment

Requested:

Justification for Resource Students with special needs interested in our programs need specialized tools to ensure their success in

Request: programs.

Department Code: 095300 Drafting

Requested Funding Source: VTEA

Goal: Prepare for Jobs of the 21st Century

Create pathways to certificates and degrees, that involve middle skills and prepare students to be employed with above living wage pay in a competitive labor market.

Year: 2011 - 2012

Start Date: 09/01/2011

End Date: 08/31/2014

Goal Status: NEW

Goal Priority: High

Rationale: Department is poised to become a facilitator to prepare students for middle skills jobs. Current data shows there is a need for people with versatile skills for the current globalized competitive labor market.

Strategies: Research and develop plans for students to be assessed of current skills. Study current and future trends and create degrees and certificates that will meet skills of said trends.

Responsible Parties: Department Head

Campus supported by this LAC

goal:

Specify if goal is for Department/ Program

department or sub-area:

Level of Support Needed: School or VP

Related Resources Needed

* Resources Needed Name: Curriculum Identity

Resources Needed Review program curricula, categorize, and place into appropriate--updated--programs: Industrial/Mechanical,

Description: Architectural, Civil, Construction,
Design Process etc.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 9000.0000

Type of Resource Personnel - Faculty

Requested:

Justification for Resource While there are many universal truths within the drafting and design process, certain techniques are better suited

Request: for for one field of focus

over another. A larger understanding of different aspects may be beneficial to seasoned students, but may create an ambiguous approach for novice students.

Department Code: 095300 Drafting

Requested Funding Source: General Fund

* Resources Needed Name: Gainful Employment Act / Post-Student Success

Resources Needed Research, implement, and refine tools needed to track post student success after completion of Drafting

Description: programs.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 10000.0000

Type of Resource Other

Requested:

Justification for Resource

Request: The Drafting department must optimize and maximize resources so that post-students will have all necessary and up-to-date skills in order to find competitive occupations within Industry.

Post-students who choose to remain in academia must be able to use LBCC Drafting as a successful pathway into a 4 year institution.

Department Code: 095300 Drafting

Requested Funding Source: VTEA

* Resources Needed Name: Universal Access and Accomidations

Resources Needed Disabled students will have access to facilities and equipment which will not impede understanding, or individual

Description: progress.

Inter-Level/ VP Level Group NEW

Decision:

Fiscal Year: 2011 - 2012

Duration: On-going

Estimated Cost: 50000.0000

Type of Resource Other

Requested:

Justification for Resource All students, regardless of complications, should all be given the same opportunities to excel within the Drafting

Request: department.

Therefore, accommodations must be made to ensure a quality experience which the student will be able to take beyond his/her time with LBCC Drafting.

Department Code: 095300 Drafting

Requested Funding Source: VTEA