

Cover/Signature Page - Abbreviated Template/Abbreviated Template with Curriculum

Institution Submitting Request: Utah Valley University
Proposed Title: Certificate of Proficiency in Structural Design Technology
School or Division or Location: College of Technology and Computing
Department(s) or Area(s) Location: Engineering Graphics and Design Technology
Recommended Classification of Instructional Programs (CIP) Code¹ (for new programs): 15.1399
Proposed Beginning Date (for new programs): Fall 2014
Institutional Board of Trustees' Approval Date: *Pending*

Proposal Type (check all that apply):

Regents' General Consent Calendar Items		
<i>R401-5 OCHE Review and Recommendation; Approval on General Consent Calendar</i>		
SECTION NO.		ITEM
5.1.1	<input type="checkbox"/>	Minor*
5.1.2	<input type="checkbox"/>	Emphasis*
5.2.1	<input checked="" type="checkbox"/>	Certificate of Proficiency*
5.2.3	<input type="checkbox"/>	Graduate Certificate*
5.4.1	<input type="checkbox"/>	New Administrative Unit
	<input type="checkbox"/>	Administrative Unit Transfer
	<input type="checkbox"/>	Administrative Unit Restructure
	<input type="checkbox"/>	Administrative Unit Consolidation
5.4.2	<input type="checkbox"/>	New Center
	<input type="checkbox"/>	New Institute
	<input type="checkbox"/>	New Bureau
5.5.1	<input type="checkbox"/>	Out-of-Service Area Delivery of Programs
5.5.2	<input type="checkbox"/>	Program Transfer
	<input type="checkbox"/>	Program Restructure
	<input type="checkbox"/>	Program Consolidation
5.5.3	<input type="checkbox"/>	Name Change of Existing Programs
5.5.4	<input type="checkbox"/>	Program Discontinuation
	<input type="checkbox"/>	Program Suspension
5.5.5	<input type="checkbox"/>	Reinstatement of Previously Suspended Program
	<input type="checkbox"/>	Reinstatement of Previously Suspended Administrative Unit

Chief Academic Officer (or Designee) Signature:

I certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

Signature

Printed Name: Ian Wilson

Date: *MM/DD/YEAR*

Program Request - Abbreviated Template
Utah Valley University
Certificate of Proficiency in Structural Design Technology
04/10/2013

Section I: Request

The Engineering Graphics and Design Technology Department at Utah Valley University requests permission to offer a Certificate of Proficiency in Structural Design Technology effective Fall 2014.

Section II: Need

The Certificate of Proficiency in Structural Design Technology will be dedicated to teaching the technical and functional elements of structural steel detailing, and will educate students in the process of taking structural related projects from conceptual design to completed construction documents. Students will be required to take the structural related courses currently offered in the Engineering Graphics and Design Technology (EGDT), Drafting Technology program. From these courses students will learn the basics of structural steel detailing, and be trained in industry standard two-dimensional and three-dimensional software/Building Information Modeling (BIM) packages. Students will also take courses in advanced structural design and detailing. A student with a Certificate of Proficiency in Structural Design Technology will be prepared for an entry level job as a structural steel detailer. They can increase their education, training, and employability by completing the Associate of Applied Science in Drafting Technology.

According to the Bureau of Labor Statistics (BLS), demand nationally for Drafters/Designers in general is projected to increase by six percent between 2010 and 2020. These statistics are known to vary depending on the specialty area. The BLS has no specific data for the structural steel sector, but it is often included with the architectural and civil related areas. Employment growth for these areas is projected to be three percent during this time period

According to the Utah Department of Workforce Services the projected growth rate for Architectural and Civil Drafters/Designers in the state is 0.8 percent annually or a total of eight percent growth between 2010 and 2020.

This certificate will also help to achieve Utah's Prosperity 2020 objectives of: (1) having 66 percent of the state's population with postsecondary certificates or degrees, and (2) being a STEM Top Ten Center for technology jobs and business.

Section III: Institutional Impact

The EGDT department is prepared to offer this certificate immediately. No additional courses need to be offered. No additional faculty, equipment, or resources are projected to be required unless enrollments increase dramatically. All faculty have a minimum of ten years industry experience and training directly related to the subject matter. The same professional development activities currently required for the Associate in Applied Science – Drafting Technology degree will be sufficient. Enrollments in affiliated departments or programs should not be affected. No administrative structure needs to be changed.

Section IV: Finances

As this certificate requires no new courses or sections, there will be no additional financial needs required to offer this certificate. All faculty and staff are currently in place, and no additional classroom space will be required.

Section V: Program Curriculum

All Program Courses (with New Courses in Bold)

Course Prefix and Number	Title	Credit Hours
Required Courses:		
EGDT 1000	Introduction to Engineering Drawing and Technical Design	2
EGDT 1020	3D Architectural Modeling	3
EGDT 1040	Computer Aided Drafting – AutoCAD	3
EGDT 1300	Structural Drafting	3
EGDT 2300	Advanced Structural—CAD	3
EGDT 2310	Structural Steel Modeling	3
Total Number of Credits		17

Program Schedule

Fall of First Year (Course Prefix and Number)	Course Title	Credit Hours
EGDT 1000	Introduction to Engineering Drawing and Technical Design	2
EGDT 1040	Computer Aided Drafting – AutoCAD	3
	Semester total:	5
Spring of First Year (Course Prefix and Number)	Course Title	Credit Hours
EGDT 1020	3D Architectural Modeling	3
EGDT 1300	Structural Drafting	3
	Semester total:	6
Fall of Second Year (Course Prefix and Number)	Course Title	Credit Hours
EGDT 2300	Advanced Structural	3
EGDT 2310	Structural Steel Modeling	3
	Semester total:	6