

Program and Core Objectives Summary

Engineering Graphics Technology AAS

August 2005

OBJECTIVE TYPE & No.	OBJECTIVE DESCRIPTION	FORMATIVE ASSESSMENT	SUMMATIVE ASSESSMENT
Core 1	Effectively communicate electronically, verbally, and in writing	70% or higher on essay portfolio in ENGL 1113 Freshman Comp I or persuasive speech in SPCH 1113 Speech	70% or higher on fly-through presentation of finished building design in ETDG 2683 Commercial Architecture
Core 2	Demonstrate logical, systematic problem-solving techniques	70% or higher on complete set of coursework and exams in MATH 1513 College Algebra	70% or higher on final lab assignment ETDG 2623 Building Structures
Core 3	Develop and display a sense of personal, social and professional ethics	70% or higher on Professional Interview/Code of Ethics Analysis during PHIL 1213 Ethics	?????
Core 4	Explain the cultural heritage and primary elements of the history and government of the U.S. and its people, especially as it impacts one's industry or field of study	70% or higher on complete set of coursework and exams in US History to 1865 HIST 1483 or US History from 1865 HIST 1493	70% or higher on complete set of coursework and exams in POLS 1113 US Government
Core 5	Access and use technology appropriate to one's industry or field of study	70% or higher on a comprehensive exam in GTGE 1111 Computer Literacy & Applications	70% or higher on complete set of assignments and exams in ETDG 2661 Intro to Surveying
Program 1	Apply mathematical techniques to solve problems in physical science and engineering graphics	70% or higher on final exam in ETDG 2503 Statics	70% or higher on final exam in ETDG 2513 Strengths of Materials
Program 2	Use CAD to create a complex drawing according to standard drafting practices including the use of layers and drawing set up features as they related the Architectural, Civil, and Mechanical fields	70% or higher on final project in ETDG 1193 Applied AutoCAD	70% or higher on final project in ETDG 1323 CAD customization
Program 3	Scale and plot a drawing to an industry-accepted scale with the correct dimension variables, text size, insertion factors etc. in all three discipline specific areas	70% or higher on final project in ETDG 1143 Intro to Design/Drafting	70% or higher on final project in ETDG 2293 Mechanical Design
Program 4	Develop visualization skills necessary for the creation of sketches and projections of engineering drawings, as required in Architectural, Civil, and Mechanical drawings	70% or higher on final project in ETDG 1253 Technical Drawing	70% or higher on final project in ETDG 2643 Parametric Drafting & Design
Program 5	Analyze drawings to determine the required dimensions to be placed on the drawings. Apply dimensions to describe size and shape accurately on engineering drawings according to discipline specific standards		

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Program 6	Perform quantity estimates and calculations as they pertain to Architecture, Civil, and Mechanical designs	70% or higher on final project in ETDG 1283 Mechanical Drafting	70% or higher on final project in ETDG 2653 Civil Technology Sciences
Program 7	Use principles of Land Law, Surveying, and Mapping to manipulate parcels of land for the purpose of design/drafting	70% or higher on midterm in ETDG 2661 Intro to Surveying	70% or higher on final project in ETDG 2661 Intro to Surveying
Program 8	Understand and specify manufacturing and fabrication processes, as they pertain to machine drafting		
Program 9	Specify, illustrate, and differentiate standard machine components in technical drawings		

Note: Assessments in yellow areas are conducted in Arts & Sciences. Assessments in gray areas are conducted by other divisions or units.