STUDENT LEARNING ASSESSMENT OVERVIEW
BUILDING TRADES

The Building Trades program provides a broad education towards entry-level employment opportunities in the construction field. Beginning courses concentrate on basic techniques including carpentry, construction safety, blueprint reading and job site etiquette. Later, students participate in building a home from planning through completion phases. They also have the opportunity to learn sophisticated design skills in the new Computer Aide Design (CAD) laboratory. Internships with local contractors are available for students to gain experience in the field.

Program Objectives/Competencies

Upon completion of the Building Trades Associate Degree Program:

1. The student will recognize and demonstrate basic knowledge of general construction industry practices and policies.
2. The student will illustrate knowledge of estimating, project scheduling, contract documents, and payment acquisitions.
3. The student will demonstrate basic knowledge of financial management, project safety management, and will exemplify effective employee relations.
4. The student will demonstrate abilities and skills appropriate to basic general construction.
5. The student will recognize and apply basic construction theory and mathematical principles in application of building design and technique.
6. The student will recognize and exhibit positive employability characteristics.

Program Objectives Assessment Plan

All program objectives/exit competencies are measured with multiple tools. The following **Curriculum Map** outlines those measurement tools and courses in which the program objectives are presented and/or measured:

Program Objective	Measurement Tools	Courses In Which Program Objectives Are Presented and/or Measured
1. The student will recognize and demonstrate basic knowledge of general construction industry practices and policies.	• National Center for Construction Education and Research (NCCER) Curriculum Written Tests	• BT 101 • BT 102 • BT 111 • BT 115 • BT 112

	• NCCER Curriculum Performance Tests • Pre/Post-Test • Oral Tests	• BT 116 • BT 121 • BT 122 • BT 201 • BT 202 • BT 215 • BT 250 • BT 260
2. The student will illustrate knowledge of estimating, project scheduling, contract documents, and payment acquisitions.	• Estimating Project • NCCER Curriculum Written Tests • NCCER Curriculum Performance Tests • Pre/Post-Test • Oral Tests	• BT 116 • BLAW 202 • BT 121 • BT 202 • BT 215 • BT 260
3. The student will demonstrate basic knowledge of financial management, project safety management, and will exemplify effective employee relations.	• Project Management Portfolio • NCCER Curriculum Written Tests • NCCER Curriculum Performance Tests • Pre/Post-Test • Oral Tests	• BLAW 202 • BT 116 • BT 121 • BT 202 • BT 215 • BT 260 • Soc. Sci. Elective
4. The student will demonstrate abilities and skills appropriate to basic general construction.	• Performance Profile • NCCER Curriculum Written Tests • NCCER Curriculum Performance Tests • Pre/Post-Test • Oral Tests	• BT 101 • BT 102 • BT 111 • BT 115 • BT 112 • BT 116 • BT 121 • BT 122 • BT 201 • BT 202 • BT 250
5. The student will recognize and apply basic construction theory and mathematical principles in application of building design and technique.	• Blueprint Evaluation • NCCER Curriculum Written Tests • NCCER Curriculum Performance Tests • Pre/Post-Test • Oral Tests	• ACS 100 • BT 111 • BT 115 • BT 112 • BT 116 • BT 121 • BT202

		• BT 215 • BT 250 • MATH 101 • Science Elective
6. The student will recognize and exhibit positive employability characteristics.	• Daily Contacts • NCCER Curriculum Written Tests • NCCER Curriculum Performance Tests • Pre/Post-Test • Oral Tests	• ACS 100 • BT 111 • BT 121 • BT 202 • BT 215 • BT 260 • COMM 102 • Soc. Sci. Elective

General Education Competencies

Upon completion of the Building Trades Associate Degree Program and in addition to the above mentioned program objectives/competencies:

1. Students will read, write, listen, and use verbal skills to organize and communicate information and ideas in personal and group settings (Communication).
2. Students will demonstrate mathematical principles and scientific reasoning by applying appropriate methods to the inquiry process (Quantitative and Scientific Reasoning).
3. Students will identify, evaluate, and analyze evidence to guide decision making and communicate his/her beliefs clearly and accurately (Critical Thinking).

General Education Competencies Assessment Plan

General Education Competencies are measured with multiple tools.
The following **Curriculum Map** outlines those measurement tools and courses in which the program objectives are presented and/or measured:

General Education Competencies	Measurement Tools	Courses In Which Program Objectives Are Presented and/or Measured
Communication 1. Present ideas in writing. 2. Present ideas orally according to standard usage. 3. Demonstrate application of information technology.	• College Rubric • Program-Specific Rubric • GEA • NCCER Curriculum Written Tests • NCCER Curriculum Performance Tests • CAT • Pre/Post-Test • Oral Tests • Estimating Project • Project Management Portfolio • Performance Profile • Blueprint Evaluation • Daily Contacts • Class Presentations	• ACS 100 • BLAW 202 • BT 102 • BT 112 • BT 116 • BT 121 • BT 202 • BT 215 • BT 260 • COM 102 • CIS 101 • ENG 102 • Science Elective • Social Science Elective
Quantitative and Scientific Reasoning 4. Demonstrate mathematical principles. 5. Demonstrate scientific reasoning. 6. Apply scientific methods to the inquiry process.	• College Rubric • Program-Specific Rubric • GEA	• BT 101 • BT 102 • BT 111 • BT 112 • BT 115 • BT 116 • BT 121 • BT 122 • BT 201 • BT 202 • BT 215 • BT 250 • MATH 101 • Lab Science Elective • Social Science/Humanities Elective

Critical Thinking 7. Read and analyze complex ideas. 8. Locate, evaluate, and apply research information. 9. Evaluate and present well-reasoned arguments.	• College Rubric • Program-Specific Rubric • GEA • Estimating Project • Project Management Portfolio • Performance Profile • Blueprint Evaluation • Daily Contacts • Class Presentations	• ACS 100 • BT 111 • BT 115 • BT 112 • BT 116 • BT 121 • BT202 • BT 215 • BT 250 • COMM 102 • MATH 101 • Lab Science Elective • Social Science/Humanities Elective

Overview

The Building Trades assessment plan is addressed via a plan→do→study→adjust cycle that begins every fall term and follows one Building Trades cohort from first term through graduation.