

# BUILDING CONSTRUCTION TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE

## Doña Ana Community College 2024-2025 Catalog (60 credits)

NOTE: Students must earn a final grade of C- or better in all required BCT and TCEN courses/Technical Requirements/Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
<b>General Education</b>		
Choose one course from four of the following six content areas for a total of 12-14 credits <sup>1,2</sup>		12-14
This degree requires a course from Area I, students must select three courses from the remaining areas to complete General Education requirements. <sup>1</sup>		
Area I: Communications - English Composition Level 1		
ENGL 1110G	Composition I	
Area II: Mathematics		
Area III: Laboratory Sciences		
Area IV: Social/Behavioral Sciences		
Area V: Humanities		
Area VI: Creative and Fine Arts		
General Education Elective - Area I: Communications - Oral Communications		
COMM 1115G	Introduction to Communication	3
<b>Core Requirement</b>		
Choose one from the following:		3
MATH 1215	Intermediate Algebra	
MATH 1220G	College Algebra	
OETS 118	Mathematics for Technicians	
<b>Major Requirements</b>		
Technical Requirement Courses		
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 103	Introduction to Construction Laboratory	3
BCT 109	Plumbing I	3
BCT 110	Blueprint Reading for Building Trades	4
BCT 114	Basic Carpentry	3
BCT 115	Carpentry Level I	3
BCT 116	Basic Carpentry Lab	2
BCT 130	Professional Development and Leadership	1
or BCT 150	Forklift Operation	
BCT 209	Plumbing II	3

BCT 217	Building and the Environment	3
Choose ONE of the following tracks of study:		12
<b>Basic Solar Track</b>		
TCEN 101	Energy for the Next Generation	
TCEN 110	Photovoltaic Application	
TCEN 205	NEC for Alternative Energy	
or OEET 110	Basic Electricity and Electronics	
Elective ARCT, BCT, DRFT, or TCEN Courses (1 credit)		
<b>Energy Auditing Track</b>		
BCT 219	Weatherization in Construction	
TCEN 105	Building Analyst I	
TCEN 106	Building Analyst II	
TCEN 156	Building Envelope	
<b>General Building Track</b>		
Elective ARCT, BCT, DRFT, or TCEN Courses (12 credits)		
<b>Total Credits</b>		<b>60</b>

- <sup>1</sup> Each course selected must be from a different area and students cannot take multiple courses in the same area.
- <sup>2</sup> See the General Education (<https://catalogs.nmsu.edu/dona-ana/general-education-and-transfer-options/transfer-new-mexico-institutions/>) section of the catalog for a full list of courses.

## (60-62 credits)

### A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

**NOTE:** Students must earn a final grade of C- or better in all BCT and TCEN courses, and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Semester 1		Credits
Area I: Communications - English Composition Level I		4
ENGL 1110G	Composition I	
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 103	Introduction to Construction Laboratory	3
BCT 130	Professional Development and Leadership	1
or BCT 150	or Forklift Operation	
Choose one from the following:		3
MATH 1215	Intermediate Algebra	
MATH 1220G	College Algebra	
OETS 118	Mathematics for Technicians	
<b>Credits</b>		<b>15</b>
Semester 2		Credits
General Education Elective - Area I: Communications - Oral Communications		3
COMM 1115G	Introduction to Communication	

2 Building Construction Technology - Associate of Applied Science

BCT 114	Basic Carpentry	3
BCT 115	Carpentry Level I	3
BCT 116	Basic Carpentry Lab	2
BCT 109	Plumbing I	3

**Credits** **14**

**Semester 3**

Select two courses from different NM General Education Areas II, III, IV, V, and VI. A total of 4 courses from different areas are required. 6-8

Track Courses (select one track) - Choose one course from selected track below (total of 12 credits needed to complete each track). 3

Basic Solar Track

TCEN 101	Energy for the Next Generation	
TCEN 110	Photovoltaic Application	
TCEN 205 or OEET 110	NEC for Alternative Energy or Basic Electricity and Electronics	
Elective ARCT, BCT, DRFT, or TCEN course (1 credit)		

Energy Auditing Track

BCT 219	Weatherization in Construction	
TCEN 105	Building Analyst I	
TCEN 106	Building Analyst II	
TCEN 156	Building Envelope	

General Building Track

Elective ARCT, BCT, DRFT, or TCEN courses (12 credits)		
BCT 110	Blueprint Reading for Building Trades	4
BCT 209	Plumbing II	3

**Credits** **16-18**

**Semester 4**

Select one course from different NM General Education Areas II, III, IV, V, and VI. A total of 4 courses from different areas are required. 3

BCT 217 Building and the Environment 3

Track Course - Choose one course from the list in Semester 3. 3

Track Course - Choose one course from the list in Semester 3. 3

Track Course - Choose one course from the list in Semester 3. 3

**Credits** **15**

**Total Credits** **60-62**