

# CONSTRUCTION AND DESIGN, AAS

## Construction Management

The Associate of Applied Science, Construction and Design, Construction Management will provide the student with the basic, entry-level skills set and understanding of the construction industry as it relates to the residential, commercial and heavy construction markets. The successful student upon completion of this two-year program will possess the necessary knowledge to enter the construction management field.

## Outcomes

Students completing the emphasis will:

- Understand, develop, apply and demonstrate specific construction management skills related to supervision techniques, scheduling, cost control systems and construction contracts.
- Examine and evaluate construction project documents, plans and specifications as determined by the needs included in the material takeoff and estimating process.
- Formulate and organize management applications utilizing general construction knowledge in the areas of safety, construction materials, scheduling and methods for efficient production.

AAS degrees are generally non-transfer degrees that are designed for students to enter the workforce.

To earn an AAS degree, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 units within the college.
3. Satisfy General Education requirements for the AAS (<http://catalog.tmcc.edu/degrees-certificates/general-education/aas>).
4. Have no financial or library obligation to the college.

Code	Title	Units
<b>General Education Requirements</b>		
<i>Communications/English</i>		6
Recommended:		
ENG 101 & ENG 107	Composition I and Technical Communications I <sup>1</sup>	
Required:		
ENG 102 or ENG 114	Composition II For International Students	
<i>Fine Arts/Humanities/Social Science</i>		
Required:		
AAD 201	History of the Built Environment	3
<i>Human Relations</i>		3
Recommended:		
MGT 171	Supervision	
<i>Mathematics</i>		3
Recommended:		
MATH 108	Math for Technicians <sup>2</sup>	
<i>Science</i>		3

Recommended:

ENV 101	Introduction to Environmental Science	
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### Additional College Requirements

*Diversity* <sup>1</sup> [3]

Recommended:

AAD 201	History of the Built Environment <sup>1</sup>	
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*U.S. and Nevada Constitutions* 3

Required, Choose one or two from the following: <sup>1</sup>

PSC 101 or CH 203	Introduction to American Politics <sup>1</sup> and American Experiences and Constitutional Change	
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HIST 101 & HIST 102	US History to 1877 and U. S. History since 1877	
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HIST 101 & HIST 217	US History to 1877 and Nevada History	
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HIST 101 & PSC 100	US History to 1877 and Nevada Constitution	
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HIST 101 & PSC 208	US History to 1877 and Survey of State and Local Government	
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### Degree Requirements

*Core*

AAD 125	Construction Drawings and Detailing	3
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CONS 120	Print Reading and Specification	3
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*Emphasis*

CONS 111	Commercial Building Codes	3
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CONS 121	Principles of Construction Estimating	3
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CONS 155	On-Site Construction Supervision	3
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CONS 205	Construction Site Safety	3
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CONS 211	Construction Cost Control	3
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CONS 221	Construction Estimating II	3
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CONS 281	Construction Planning, Scheduling and Control	3
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CONS 282	Construction Law	3
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*Elective* 9

Select at least 9 units from the following:

ADT 230	Mechanical and Electrical Equip for Buildings	
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ADT 245	Statics and Strength of Materials	
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CADD 100	Introduction to Computer-Aided Drafting	
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CONS 198	Special Topics in Construction	
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CONS 290	Internship in Construction	
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IS 101	Introduction to Information Systems	
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MGT 201	Principles of Management	
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SUR 119	Construction Surveying	
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Total Units 60

<sup>1</sup> May also count toward additional college requirements. Please consult with Academic Advisement.

<sup>2</sup> If this AAS degree is used for transfer toward the Bachelor of Arts Technology Degree at WNC, Math 126 or higher will be required.

1st semester	Units
AAD 125	Construction Drawings and Detailing 3
AAD 201	History of the Built Environment 3
CONS 120	Print Reading and Specification 3
CONS 155	On-Site Construction Supervision 3

U.S. and Nevada Constitutions <sup>3</sup>	3
<hr/> Semester Total	<hr/> 15
<b>2nd semester</b>	
ENG 101 Composition I	3
ENG 107 Technical Communications I	3
CONS 111 Commercial Building Codes	3
Mathematics <sup>4</sup>	3
Human Relations <sup>4</sup>	3
<hr/> Semester Total	<hr/> 15
<b>3rd semester</b>	
CONS 121 Principles of Construction Estimating	3
CONS 205 Construction Site Safety	3
Elective <sup>4</sup>	6
ENV 101 Introduction to Environmental Science	3
<hr/> Semester Total	<hr/> 15
<b>4th semester</b>	
CONS 211 Construction Cost Control	3
CONS 221 Construction Estimating II	3
CONS 281 Construction Planning, Scheduling and Control	3
CONS 282 Construction Law	3
Elective <sup>4</sup>	3
<hr/> Semester Total	<hr/> 15
<hr/> Total Units	<hr/> 60

<sup>3</sup> See approved General Education list for the AAS Degree. (<http://catalog.tmcc.edu/degrees-certificates/general-education/aas>)

<sup>4</sup> See program recommendations or requirements.