

Course	Credits	Description & Outcomes	Semester
CMSV 2710: IRC Plan Review & Field Inspections	3	<p><i>Description:</i> Provides a basic understanding of how to conduct plan reviews and field inspections under the International Residential Code. Students will learn about building components and systems, and how residential building code requirements are applied to these systems during construction. This course is intended for a student that is working towards a career in the construction industry as an inspector or as a project manager, and will assist in the preparation for the ICC Residential Inspector certification.</p> <p><i>Outcomes:</i></p> <ol style="list-style-type: none"> 1. Verify that products not detailed in the building code are approved by the building official and installed according to their listing. 2. Communicate, issue, and maintain inspection reports, correction notices, stop work orders, and data for the issuance of the certificate of occupancy. 3. Verify that the unit separation is in compliance with the code and tested assembly requirements. 4. Verify that the actual and allowable floor area calculations are correct. 5. Verify that materials used in footings and foundations are in compliance with approved plans and code requirements. 6. Inspect the construction site to see that the building or structure location is in compliance with the requirements of the local ordinances, fire separation regulations, and the site plan. <p><i>Prerequisites:</i></p> <ol style="list-style-type: none"> 1. CMSV 2860 or equivalent 	Fall-Online
CMSV 2720: IBC Plan Review & Field Inspections	3	<p><i>Description:</i> Provides a basic understanding of how to conduct plan reviews and field inspections under the International Building Code. Students will learn about building components and systems, and how commercial building code requirements are applied to these systems during construction. This course is intended for a student that is working towards a career in the construction industry as an inspector or as a project manager, and will assist in the preparation for the ICC Plan Review and Building Inspector certifications.</p> <p><i>Outcomes:</i></p> <ol style="list-style-type: none"> 1. Identify specific detailed requirements of advanced types of construction and occupancy groups. 2. Apply referenced standards identified in the International Building Code to various required inspections. 3. Develop a systematic approach to specialty inspections. 4. Develop research and record keeping skills needed to correctly interpret and enforce building code requirements. 5. Communicate requirements of the building code to other trade and design professionals. <p><i>Prerequisites:</i></p> <ol style="list-style-type: none"> 1. CMSV 2860 or equivalent 	Spring-Online

<p>CMSV 2730: IMC Plan Review and Inspections</p>	<p>3</p>	<p><i>Description:</i> Acquaints the student with the methods and techniques using the International Mechanical Code in plan review and field inspection of mechanical systems that include heating, ventilation, air conditioning, and refrigeration. This course is intended for a student that is working towards a career in the construction industry as an inspector or as a project manager, and will assist in the preparation for the ICC Mechanical Inspector and Plan Review certification.</p> <p><i>Outcomes:</i></p> <ol style="list-style-type: none"> 1. Describe basic components of the International Mechanical Code as it relates to inspections. 2. Apply referenced standards identified in the International Mechanical Code to required inspections. 3. Discuss the intent of the International Mechanical Code. 4. Recognize and apply variables in the interpretation of the International Mechanical Code to mechanical inspections. 5. Compare and contrast different applications of mechanical systems. 6. Identify tools used in calculating and inspecting mechanical systems. 7. Discuss effective communication and listening skills related to working with consumers, contractors and industry professionals. <p><i>Prerequisites:</i></p> <ol style="list-style-type: none"> 1. CMSV 2860 or equivalent 	<p>Fall-Online</p>
<p>CMSV 2740: Fire Suppression and Alarm Systems</p>	<p>2</p>	<p><i>Description:</i> This course is designed to explain the fundamental provisions of the International Fire Code and focuses on the basics of the code requirements for the design, installation, and operation of fire department systems, access, water supply, alarms, and hydrants. This course is intended for a student that is working towards a career in the construction industry as an inspector or as a project manager, and will assist in the preparation for the ICC Fire Suppression and Alarm certifications.</p> <p><i>Outcomes:</i></p> <ol style="list-style-type: none"> 1. Analyze the basic components of fire as a chemical chain reaction, the major phases of fire, and examine the main factors that influence fire spread and fire behavior. 2. Explain the benefits of fire protection systems in various types of structures. 3. Describe the basic element of a public water supply system including sources, distribution networks, piping and hydrants. 4. Identify the different types of components of sprinkler, standpipe, and foam systems. 5. Explain the basic components of a fire alarm system. 6. Describe the hazards of smoke and factors that can influence smoke movement in a building. <p><i>Prerequisites:</i></p> <ol style="list-style-type: none"> 1. CMSV 2860 or equivalent 	<p>Fall-Online</p>