

**ROWAN COLLEGE AT GLOUCESTER COUNTY**

**STEM DIVISION**

**Science, Technology, Engineering and Mathematics**

**Engineering Technologies**  
**Professional Development Certificates**

The Professional Development Certificates in the Engineering Technologies program will provide the students with a concentration of courses that parallel the Associates Degree program. The certificates below give students the knowledge and skills needed for employment in their respective fields. Once a certificate is completed, students can continue with the remaining course requirements leading to an A.A.S. degree in Engineering Technologies from Gloucester County College.

<p align="center"><b>Civil Engineering Technologies</b> Professional Development Certificate</p> <table border="0"> <thead> <tr> <th align="left"><u>REQUIRED COURSES</u></th> <th align="right"><u>Credits</u></th> </tr> </thead> <tbody> <tr> <td>CET 101 Introduction to Materials</td> <td align="right">3</td> </tr> <tr> <td>CET 108 Introduction to Surveying</td> <td align="right">3</td> </tr> <tr> <td>CET 203 Applied Statics</td> <td align="right">3</td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td>CET 204 Structural Systems</td> <td></td> </tr> <tr> <td>Or</td> <td></td> </tr> <tr> <td>CET 205 Applied Strengths &amp; Materials</td> <td></td> </tr> <tr> <td>Or</td> <td></td> </tr> <tr> <td>CET 208 Route &amp; Construction Surveying</td> <td align="right">3</td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td><b><u>TOTAL MINIMUM CREDITS:</u></b></td> <td align="right"><b>12</b></td> </tr> </tbody> </table>	<u>REQUIRED COURSES</u>	<u>Credits</u>	CET 101 Introduction to Materials	3	CET 108 Introduction to Surveying	3	CET 203 Applied Statics	3	 		CET 204 Structural Systems		Or		CET 205 Applied Strengths & Materials		Or		CET 208 Route & Construction Surveying	3	 		<b><u>TOTAL MINIMUM CREDITS:</u></b>	<b>12</b>	<p align="center"><b>Construction Supervision</b> Professional Development Certificate</p> <table border="0"> <thead> <tr> <th align="left"><u>REQUIRED COURSES</u></th> <th align="right"><u>Credits</u></th> </tr> </thead> <tbody> <tr> <td>CET 101 Introduction to Materials</td> <td align="right">3</td> </tr> <tr> <td>DFT 103 CADD I (AutoCad)</td> <td align="right">3</td> </tr> <tr> <td>CET 201 Codes, Contracts, Specifications</td> <td align="right">3</td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td>BUS 107 Business Law</td> <td></td> </tr> <tr> <td>Or</td> <td></td> </tr> <tr> <td>CET 209 Cost Estimating</td> <td></td> </tr> <tr> <td>Or</td> <td></td> </tr> <tr> <td>DFT 203 CADD 3D Modeling</td> <td align="right">3</td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td><b><u>TOTAL MINIMUM CREDITS:</u></b></td> <td align="right"><b>12</b></td> </tr> </tbody> </table>	<u>REQUIRED COURSES</u>	<u>Credits</u>	CET 101 Introduction to Materials	3	DFT 103 CADD I (AutoCad)	3	CET 201 Codes, Contracts, Specifications	3	 		BUS 107 Business Law		Or		CET 209 Cost Estimating		Or		DFT 203 CADD 3D Modeling	3	 		<b><u>TOTAL MINIMUM CREDITS:</u></b>	<b>12</b>
<u>REQUIRED COURSES</u>	<u>Credits</u>																																																
CET 101 Introduction to Materials	3																																																
CET 108 Introduction to Surveying	3																																																
CET 203 Applied Statics	3																																																
CET 204 Structural Systems																																																	
Or																																																	
CET 205 Applied Strengths & Materials																																																	
Or																																																	
CET 208 Route & Construction Surveying	3																																																
<b><u>TOTAL MINIMUM CREDITS:</u></b>	<b>12</b>																																																
<u>REQUIRED COURSES</u>	<u>Credits</u>																																																
CET 101 Introduction to Materials	3																																																
DFT 103 CADD I (AutoCad)	3																																																
CET 201 Codes, Contracts, Specifications	3																																																
BUS 107 Business Law																																																	
Or																																																	
CET 209 Cost Estimating																																																	
Or																																																	
DFT 203 CADD 3D Modeling	3																																																
<b><u>TOTAL MINIMUM CREDITS:</u></b>	<b>12</b>																																																
<p align="center"><b>Drafting and Design</b> Professional Development Certificate</p> <table border="0"> <thead> <tr> <th align="left"><u>REQUIRED COURSES</u></th> <th align="right"><u>Credits</u></th> </tr> </thead> <tbody> <tr> <td>DFT 103 CADD I (AutoCad)</td> <td align="right">3</td> </tr> <tr> <td>DFT 113 CADD II (Advanced AutoCad)</td> <td align="right">3</td> </tr> <tr> <td>DFT 211 Architectural &amp; Civil Planning</td> <td align="right">3</td> </tr> <tr> <td>DFT 203 CADD 3D Modeling</td> <td align="right">3</td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td><b><u>TOTAL MINIMUM CREDITS:</u></b></td> <td align="right"><b>12</b></td> </tr> </tbody> </table>	<u>REQUIRED COURSES</u>	<u>Credits</u>	DFT 103 CADD I (AutoCad)	3	DFT 113 CADD II (Advanced AutoCad)	3	DFT 211 Architectural & Civil Planning	3	DFT 203 CADD 3D Modeling	3	 		<b><u>TOTAL MINIMUM CREDITS:</u></b>	<b>12</b>	<p align="center"><b>Land Surveying</b> Professional Development Certificate</p> <table border="0"> <thead> <tr> <th align="left"><u>REQUIRED COURSES</u></th> <th align="right"><u>Credits</u></th> </tr> </thead> <tbody> <tr> <td>CET 108 Introduction to Surveying</td> <td align="right">3</td> </tr> <tr> <td>CET 206 Evidence &amp; Procedures of Boundary Locations</td> <td align="right">3</td> </tr> <tr> <td>CET 208 Route &amp; Construction Surveying</td> <td align="right">3</td> </tr> <tr> <td>DFT 103 CADD I (AutoCad)</td> <td align="right">3</td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td><b><u>TOTAL MINIMUM CREDITS:</u></b></td> <td align="right"><b>12</b></td> </tr> </tbody> </table>	<u>REQUIRED COURSES</u>	<u>Credits</u>	CET 108 Introduction to Surveying	3	CET 206 Evidence & Procedures of Boundary Locations	3	CET 208 Route & Construction Surveying	3	DFT 103 CADD I (AutoCad)	3	 		<b><u>TOTAL MINIMUM CREDITS:</u></b>	<b>12</b>																				
<u>REQUIRED COURSES</u>	<u>Credits</u>																																																
DFT 103 CADD I (AutoCad)	3																																																
DFT 113 CADD II (Advanced AutoCad)	3																																																
DFT 211 Architectural & Civil Planning	3																																																
DFT 203 CADD 3D Modeling	3																																																
<b><u>TOTAL MINIMUM CREDITS:</u></b>	<b>12</b>																																																
<u>REQUIRED COURSES</u>	<u>Credits</u>																																																
CET 108 Introduction to Surveying	3																																																
CET 206 Evidence & Procedures of Boundary Locations	3																																																
CET 208 Route & Construction Surveying	3																																																
DFT 103 CADD I (AutoCad)	3																																																
<b><u>TOTAL MINIMUM CREDITS:</u></b>	<b>12</b>																																																