

Term	Course Number	Course Title	H'rs	Cr's
1	CMET 110	Statics	8	4
	CMET 111	Eng'g Tech'y Orientation	10	4
	CMET 112	Tech Algebra/Trigonometry	9	4
	CMET 113	Eng'g Tech'y Graphics	6	3
			33	15
2	CMET 121	Strength of Materials	8	4
	CMET 122	Tech Engineering Physics	10	4
	CMET 123	Tech Algebra/Analytic Geometry	9	4
	CH 101/104	Chemistry <sup>1</sup>	7	5
			34	17
3	CMET 131	Applied Calculus	18	8
	CMET 227	Applied Electricity Fundamentals	4	2
	WR 121	English Composition <sup>2</sup>	4	4
		General Education <sup>1</sup>	4	4
			30	18
4	CMET 132	Plane Surveying (CET) or		
	CMET 226	Dynamics (MET)	6	3
	CMET 133	Materials Technology	6	3
	CMET 221	Environmental Systems	7	4
	CMET 213	Fluid Mechanics	6	3
	SP 100/111	Speech Communication <sup>1</sup>	4	4
			29	17
5	CMET 228	Construction Materials (CET) or		
	CMET 215	Manufacturing Processes (MET)	6	3
	CMET 212	Thermodynamics I	8	4
	CMET 211	Environmental Quality	9	4
	CMET 241	Structural Steel Drafting	7	3
	CMET 254	CMET Seminar	1	1
	General Education <sup>1</sup>	3	3	
			34	18
6	CMET 214	Route Surveying (CET) or		
	CMET 235	Machine Design (MET)	6	3
	CMET 233	CET Applied CAD or		
	CMET 237	MET Applied CAD <sup>3</sup>	4	3
	CMET 222	Thermodynamics II	8	4
	CMET 223	Project Management	3	3
	CMET 236	Structural Design	6	3
			27	16

<b>General Education</b> (16 credits req'd)	
<b>A&amp;H</b>	
SP 100 or 111	4
<b>SS</b>	
<b>M&amp;S</b>	
CH 101/104	5

See reverse for footnotes and other explanatory notes.

Optional: CMET 280A, Cooperative Education, available any term after completing Term 3.

**ADDITIONAL COURSES FOR GREEN TECHNOLOGY AND SUSTAINABILITY OPTION**

EET 110	Introduction to Renewable Energy	3	3
SOC 228	Intro. to Environmental Sociology	4	4
GEO 265	Introduction to GIS	6	4

## **Civil & Mechanical Engineering Technology** **Effective 2011-2012**

- (1) **GENERAL EDUCATION:** 16 credits are required for an Associate of Applied Science degree, and must be selected from the General Education Course List in the current PCC Catalog. Each of the three areas below must be covered and suggested courses are listed. A maximum of 8 credits is allowed in an area.

(AAS) indicates courses required for the Associate of Applied Science degree.

(OIT) indicates courses required for graduation from Oregon Institute of Technology in Mechanical or Manufacturing Engineering Technology (MET or MfgET). While these courses may be taken at PCC, they are not required for transferring to OIT.

### **Arts & Humanities:**

SP 100, Introduction to Speech Communication (AAS) or

SP 111, Fundamentals of Speech (AAS) (OIT)

### **Social Science:**

EC 200 or 201 or 202, Principles of Economics (OIT); PSY 201, General Psychology (OIT);

GEO 265, Introduction to GIS (Good choice for CET students)<sup>8</sup>

SOC 228, Introduction to Environmental Sociology<sup>8</sup>

### **Mathematics, Natural & Physical Sciences:**

CH 101 or 104, General Chemistry (AAS) (OIT)

CIS 120, Computer Concepts I (OIT, MfgET)

MTH 243 and MTH 244, Statistics I and Statistics II (OIT)

PHY 202/212, General Physics (OIT)

PHY 203/213, General Physics (OIT, MET)

**Confirm that your selections are on PCC's General Education Course List.**

- (2) **COMMUNICATIONS:** WR 121 is required as a basic competency requirement for the AAS degree. It does not, however, count as general education credit. (WR 115 is a prerequisite for WR 121). WR 122 is required by OIT.

WR 227, Technical Writing I, is highly recommended to all students and required by OIT. WR 121 is a prerequisite for WR 227.

- (3) CMET 237, MET Applied CAD: there are several options, utilizing different CAD programs, from which students may choose.

- (4) TI-89, TI-89 Titanium, or TI Voyage 200 are the calculators used in the CMET program.

- (5) **FORMS OF RECOGNITION:**

**Associate of Applied Science (AAS) Degree in CET or MET:** For completion of terms 1 through 6.

**Green Technology and Sustainability (GT&S) Option:** The AAS degree may be supplemented to include the GT&S Option. By taking the additional course work shown on the reverse, students may earn an AAS in either CET or MET, with the Green Technology and Sustainability Option.

**Two-Year Certificate in CET or MET:** For completion of terms 1 through 4. The General Education course in term 3 must be in the Social Science area.

- (6) OIT has a normal limit of 108 credits of community college work being applied to a Bachelor of Science in Engineering Technology degree. OIT will, however, accept more credits provided that you submit and have accepted, prior to receiving your AAS degree, a plan for the additional credits to be transferred. See a PCC Engineering Technology advisor for a suggested letter to OIT's Registrar that may be used in obtaining permission.

- (7) OSU's Construction Engineering Management program accepts some credits from the CMET program. See a CMET advisor for details.

- (8) GEO 265 and SOC 228 cannot be used to satisfy both the General Education requirements for the base CET or MET degree and the requirements for the Green Technology and Sustainability Option.

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