

PVCC CURRICULUM SHEET 2015-2016

**Engineering
 Associate of Science**

Code: 831

Transfer Program

Student Name: _____ Student ID Number: _____

DEVELOPMENTAL COURSES (IF APPLICABLE)	REQUIRED COURSES	COURSE DESCRIPTION	CREDITS	PLAN TO TAKE	GRADE
	SDV 100/101/108	Orientation	1		
	ENG 111	College Composition I	3		
	ENG 112	College Composition II	3		
	CHM 111	College Chemistry	4		
	CSC 110	Introduction to Computing	3		
	EGR 120	Introduction to Engineering	2		
	EGR 115	Engineering Graphics	3		
	EGR 126	Computer Programming for Engineers or CSC 201 Computer Science I	3		
	EGR ____	Engineering Elective ³	3		
	EGR ____	Engineering Elective ³	3		
	_____	Engineering Elective/Technical Elective ^{3,4}	3		
	EGR ____	Engineering Elective ³	3		
	ECO ____ Social Science ____	ECO 201 Principles of Macroeconomics or Social Science Elective ¹	3		
	HLT/PED	Health or Physical Ed Elective	1		
	MTH 173	Calculus w/Analytic Geometry I	5		
	MTH 174	Calculus w/Analytic Geometry II	5		
	MTH 277	Vector Calculus	4		
	PHY 241	University Physics I	4		
	PHY 242	University Physics II	4		
	_____	Humanities Elective ^{1,2}	3		
	_____	Humanities Elective ^{1,2}	3		
	_____	Social Science Elective ¹	3		

Total Minimum Credits to Complete the A.S. Degree in Engineering = 69⁵

Graduation Requirement: 1. Students entering all degree programs are required to take one Writing Intensive Course, which has a prerequisite of **ENG 111 and ENG 112**, in order to graduate. Approved Writing Intensive Courses are specified with a "**WI**" section designation. 2. Earned a cumulative grade point average of at least 2.0 and in good standing.

¹List of courses that fulfill the requirement for Humanities Elective and Social Science Elective can be found on this back of this sheet.

²To meet the Humanities Elective requirement for this program, no more than one introductory foreign language course (101 or 102 level) may be used.

³Engineering Elective: Students must choose from the list of 200-level EGR courses. Students are advised to consult with the intended transfer institution before choosing the Engineering Elective.

⁴Technical Elective: Approved Technical Electives are: CHM 112 College Chemistry II, CSC 201 Computer Science I, or MTH 279 Ordinary Differential Equations. Students are advised to check with the intended transfer institution before choosing the Technical Elective.

⁵The Bachelor of Science degree in engineering at most four-year institutions will require specific engineering and technical electives at the freshman and sophomore level. Students should consult with the engineering program liaison or engineering advisor at the earliest possible date to acquaint themselves with the requirements of the engineering program of the intended transfer college or university. Student choice should be based on the requirements of four-year college or university to which student plans on transferring.

Sequence of PVCC Developmental English Courses

ENF 1 → ENF 3/ENG 111 or ENG 111

ENF 2 → ENF 3/ENG 111 or ENG 111

Sequence for ESL Students:

ESL 12 → ESL 13 → ENG 111

Sequence of PVCC Developmental Math Courses

MTE 1 → MTE 2 → MTE 3 → MTE 4 → MTE 5

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MTE 9 ← MTE 8 ← MTE 7 ← MTE 6

Approved Humanities Course Electives

ARA* 101, ARA 102, ARA 201, ARA 202

ART 100, ART 101, ART 102, ART 121, ART 122, ART 125, ART 131, ART 132, ART 138, ART 153, ART 154, ART 231, ART 232, ART 235, ART 236, ART 238, ART 241, ART 242, ART 259, ART 271, ART 272

ASL* 101, ASL 102, ASL 201, ASL 202

CHI* 101, CHI 102, CHI 201, CHI 202

CST 130, CST 131, CST 132, CST 141, CST 142, CST 229, CST 250

DAN 200, DAN 210

ENG 211, ENG 212, ENG 241, ENG 242, ENG 243, ENG 244, ENG 250, ENG 251, ENG 252, ENG 253, ENG 254, ENG 255, ENG 271, ENG 272, ENG 273, ENG 274, ENG 276

FRE* 101, FRE 102, FRE 201, FRE 202

GER* 101, GER 102, GER 201, GER 202

HUM 201, HUM 202, HUM 241, HUM 242, HUM 259

ITA* 101, ITA 102, ITA 201, ITA 202

JPN* 101, JPN 102, JPN 201, JPN 202

LAT* 101, LAT 102, LAT 201, LAT 202

MUS 121, MUS 122, MUS 221, MUS 222, MUS 225

PHI 100, PHI 101, PHI 102, PHI 111, PHI 200, PHI 220, PHI 227, PHI 260, PHI 266, PHI 276

REL 200, REL 210, REL 215, REL 216, REL 230, REL 233, REL 237, REL 240, REL 246

RUS* 101, RUS 102, RUS 201, RUS 202

SPA* 101, SPA 102, SPA 201, SPA 202

* 100 level foreign language courses may NOT be used to satisfy the humanities graduation requirement in programs where only one humanities course is required. In programs with two humanities courses, only one 100 level foreign language course may be used to satisfy the humanities graduation requirement.

Approved Transfer Electives

(All courses listed above also qualify as Transfer Electives)

ACC 211, ACC 212, ACC 213, ACC 214

ADJ 100, ADJ 133, ADJ 201, ADJ 227, ADJ 229, ADJ 232, ADJ 236

BUS 100

CSC 110, CSC 201, CSC 202, CSC 205

CST 100

Approved Mathematics Course Electives

MTH 152, MTH 157, MTH 163, MTH 164, MTH 173, MTH 174, MTH 180, MTH 240, MTH 271, MTH 277, MTH 279, MTH 286

Approved Science with Lab Course Electives

BIO 101, BIO 102, BIO 106, BIO 107, BIO 141, BIO 142, BIO 150, BIO 206, BIO 256, BIO 270

CHM 101, CHM 102, CHM 111, CHM 112, CHM 241, CHM 242, CHM 243, CHM 244, CHM 260, CHM 261

GOL 105, GOL 106, GOL 111

NAS 131, NAS 132

PHY 201, PHY 202, PHY 241, PHY 242

Approved Social Science Course Electives

ECO 201, ECO 202, ECO 245

GEO 210, GEO 220

HIS 101, HIS 102, HIS 111, HIS 112, HIS 121, HIS 122, HIS 127, HIS 141, HIS 142, HIS 211, HIS 269, HIS 270, HIS 276, HIS 277, HIS 281, HIS 282

PLS 120, PLS 135, PLS 211, PLS 212, PLS 215, PLS 216, PLS 225, PLS 241, PLS 242

PSY 200, PSY 215, PSY 225, PSY 230, PSY 235, PSY 236

SOC 200, SOC 215, SOC 225, SOC 236, SOC 252, SOC 266, SOC 268

ENG 111, 112, 121, 122, 210

EGR 115, EGR 120, EGR 126, EGR 240, EGR 245, EGR 246, EGR 248, EGR 255

GIS 200

ITD 110, ITD 130, ITE 119, ITE 120, ITE 150, ITE 221,

ITP 120

MUS 101, 102, 111, 112, 211, 212

Note to students transferring credits TO PVCC: Transferred courses may fulfill a requirement under PVCC's approved electives (above). To receive credit for a specific PVCC elective from transferred courses, registrar's approval will be required.

Note to students transferring credits FROM PVCC TO FOUR-YEAR INSTITUTIONS: Although a course fulfills a requirement for a PVCC program, it is possible the same course will not fulfill a requirement at a four-year institution. Students who plan to transfer need to be aware of the four-year institution's requirements.

Note: Students may petition the appropriate dean to substitute a course not listed on this list.