

**AS Degree, Electrical Engineering PSU for 2018-2019 Catalog**


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**AS Degree, Electrical Engineering PSU-FIRST YEAR**

FALL TERM		CREDITS	PREREQUISITES	QUARTER
CH-221	General Chemistry	5	Prerequisites: A year of high school chemistry or CH-150, or CH-104 and CH-105; MTH-095 with a C or better, or placement in MTH-105 or MTH-111	Fall/Winter
ENGR-111	Introduction to Engineering	3	Prerequisite or Corequisite: MTH-112 or higher	Fall/Winter/Spring
MTH-251	Calculus I	5	Prerequisite: MTH-112 with a C or better or placement in MTH-251. Recommended: WRD-098 or placement in WR-121	Fall/Win/ Spring/ Summer
CS-161	Computer Science I	4	Prerequisites: MTH-111 or placement in MTH-112, or 4 years high school math	Fall/Winter
<b>WINTER TERM</b>				
ENGR-112	Engineering Programming	3	Prerequisite or Corequisite: MTH-112 or higher	Fall/Winter/Spring
MTH-252	Calculus II	5	Prerequisite: MTH-251 with a C or better. Recommended: WRD-098 or placement in WR-121	Fall/Winter/ Spring/ Summer
CS-162	Computer Science II	4	Prerequisite: CS-161	Winter/Spring
ENGR-171	Digital Logic	4	Prerequisite: MTH-111	Winter
<b>SPRING TERM</b>				
MTH-253	Calculus III	5	Prerequisite: MTH-252	Fall/Winter/Spring
WR-121	English Composition	4	Prerequisite: WRD-098 or placement in WR-121. Recommended: WRD-090 or placement in RD-115	Fall/Win/ Spring/ Summer
COMM-111	Public Speaking	4	Prerequisites: WRD-090 or placement in RD-115; WRD-098 or placement in WR-121	Fall/Winter/Spring /Summer
ENGR-271	Digital Systems	4	Prerequisite: ENGR-171	Spring
<b>SUMMER TERM</b>				
MTH-261	Linear Algebra	4	Prerequisite: MTH-252 with a C or better. Recommended: WRD-098 or placement in WR-121	Fall/Spring/Summer

**AS Degree, Electrical Engineering PSU-SECOND YEAR**


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FALL TERM		CREDITS	PREREQUISITES	QUARTER
Arts & Letters Elect	Arts & Letters Elective	4		
ENGR-221	Electrical Circuit Analysis I	4	Prerequisite: MTH-252	Fall/Spring
PH-211	General Physics with Calculus	5	Prerequisites: MTH-251 with a C or better or placement in MTH-252 and WRD-090 with a C or better or placement in RD-115, or placement in WR-121. Recommended: MTH-254	Fall

Social Science Elective	Social Science Elective	4		
<b>WINTER TERM</b>				
Arts & Letters Elective	Arts & Letters Elective	4		
MTH-256	Differential Equations	4	Prerequisite: MTH-252 with a C or better	Winter/Spring/Summer
PH-212	General Physics with Calculus	5	Prerequisites: PH-211 and MTH-252. Recommended: MTH-254	Winter
ENGR-222	Electrical Circuit Analysis II	4	Prerequisite: ENGR-221	Winter
<b>SPRING TERM</b>				
PH-213	General Physics with Calculus	5	Prerequisite: PH-212	Spring
ENGR-223	Electrical Circuit Analysis III	4	Prerequisite: ENGR-222	Spring
MTH 254	Vector Calculus	5	Prerequisite: MTH-252 with a C or better; Recommended: WRD-098 or placement in WR-121	Fall/Spring/Summer
WR 122 or WR 227	English Composition or Technical Writing	4	WR 122 and 227: Prerequisite: WR-121 with a C or better. Recommended: WRD-090 or placement in RD-115	

Courses in green are the requirements for entry into the professional program. Courses in yellow are not required for entry into the professional program, but are prerequisites for upper division classes. Failure to complete highlighted courses before transfer may delay students from on-time graduation.

### PSU Electrical Engineering- THIRD YEAR

FALL		WINTER		SPRING	
ECE-321	4	ECE-322	4	ECE-317	4
ECE-371	4	ECE-316	4	Junior Elective	4
ECE-315	4	MTH-347	4	STAT-351	4
ECE-211	1	ECE-331	4	ECe-332	4
		ECE-212	2		

### PSU Electrical Engineering - FOURTH YEAR

FALL		WINTER		SPRING	
ECE Senior Track Elective	4	ECE Senior Track Elective	4	ECE Senior Track Elective	4
ECE-411	4	ECE-412	4	ECE-413	2
EC-314	2	Upper Division Cluster	4	Upper Division Cluster	4
ECE Senior Elective	4	Arts & Letters or Soc Sci Elect	3	ECE-424	2

**General Education Requirements\*\*** To earn an A.S. degree, a student must take at least one Arts & Letters elective, and one Social Science elective. The third elective class required for the A.S. degree can be either from the Arts & Letters or Social Science list. In order to meet these requirements, the following classes are available at Clackamas:

**Arts & Letters Electives:** All courses in ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR. Non-performance based courses in art, music, and theater are also accepted, including the following CCC courses: ART-101/102/103/205/206, MUS-105/141/205/206/230, and TA-101/102.

**Social Science Electives:** All courses in ANT, EC, GEO, HST, PS, PSY, SSC, SOC, and WS.

**Foreign Language:** In addition to the general education requirements, graduates of PSU must satisfy a foreign language proficiency requirement. Most students will meet the foreign language requirement by a) having completed two years of the same foreign language at the high school level b) completing two terms of a foreign language at a college or university, or c) demonstrating proficiency in a language that they already know. Clackamas offers language classes in American Sign Language, French, German, and Spanish that satisfy this requirement. Note that students who complete

foreign language courses at the college level to meet this requirement will be simultaneously meeting the Arts & Letters elective requirements (see above). Students who graduated from high school before 1997 or graduated high school from another state are exempt from this requirement. Students do not need to meet this requirement before transfer, but they must complete it before receiving a bachelor's degree.

**Transfer Timeline for PSU**

Step 1	Apply for Admission to Portland State University	Deadlines: December 15 if planning to applying for scholarships at Portland State university, February 1 when not applying for scholarships
Step 2	Apply for Scholarships at Portland State University	Deadline: February 1
Step 3	Petition for Graduation from Clackamas CC	Winter Quarter (two terms before graduation)
Step 4	Apply to CECOP program	Application Period: March 1-March 31
Step 5	Apply for Admission to the Professional program at Portland State University	Deadline: April 15 Minimum GPA for entry to the major is 2.33 and a C in all courses.