

# HAWAI'I COMMUNITY COLLEGE, 2017-2018

## Electronics Technology (ET)

**Program Requirements** (AAS Overall [62 credits, cumulative GPA 2.0 required from all courses])

(CA Overall [39 credits, cumulative GPA 2.0 required from all courses])

(CO Optics Technology+ Overall [7 credits, cumulative GPA 2.0 required from all courses])

(CO Network Technology++ Overall, [12 credits, cumulative GPA 2.0 required from all courses])

Course	Course Name	Semester, Year & Grade	CO + Optics Credits	CO ++ Network Credits	CA Credits	AAS Credits
<b>FALL:</b>						
* ETRO 120	Electronics I		---	---	5	5
* ETRO 120L	Electronics I Lab		---	---	2	2
* ETRO 121	Electronics Fabrication and Assembly		---	---	2	2
* ETRO 121L	Electronics Fabrication and Assembly Lab		---	---	---	2
ENG 21/ESL 21 or higher <b>OR</b> ENG 22 or (ESL 22G & ESL 22W) or higher	Developmental Reading  Introduction to Expository Writing		---	---	3	---
	<b>Semester Total</b>		---	---	<b>12</b>	<b>11</b>
<b>SPRING:</b>						
* ETRO 122	Electronics II		---	---	5	5
* ETRO 122L	Electronics II Lab		---	---	2	2
* ETRO 143	Digital Electronics		---	---	3	3
* ETRO 143L	Digital Electronics Lab		---	---	1	1
* ETRO 160	Laser Safety and Applications		1	---	1	1
* ETRO 161	Introduction to Optics and Photonics		3	---	3	3
ELECTIVE	Social Environment (see next page)		---	---	---	3
	<b>Semester Total</b>		<b>4</b>	---	<b>15</b>	<b>18</b>
<b>FALL:</b>						
* ETRO 257	RF Communications		---	---	2	2
* ETRO 280	Microprocessor Arch, Prog. & Interfacing		---	---	3	3
* CENT 140	Network Fundamentals		---	3	---	3
* CENT 240B	Routing Protocols and Concepts		---	3	---	3
ENG 100	Composition I		---	---	---	3
ELECTIVE	Natural Environment (see next page)		---	---	---	3
	<b>Semester Total</b>		---	<b>6</b>	<b>5</b>	<b>17</b>
<b>SPRING:</b>						
* ETRO 166	Introduction to Fiber Optics		3	---	3	3
* ETRO 287	Computer Systems and Networking		---	---	3	3
* ETRO 287L	Computer Systems and Networking Lab		---	---	1	1
* CENT 240C	LAN Switching and Wireless		---	3	---	3
* CENT 241	Accessing the WAN		---	3	---	3
ELECTIVE	Cultural Environment (see next page)		---	---	---	3
	<b>Semester Total</b>		<b>3</b>	<b>6</b>	<b>7</b>	<b>16</b>

<p><b>1. Cultural Environment Elective</b> [1 COURSE REQUIRED, 3 cr.]</p> <p>ART 101, 105B, 105C, 107D, 108, 111, 112, 113, 114, 115, 120, 123, 125, 126, 159, 202, 209, 211, 212, 214, 217, 223, 225, 227, 230, 243, 244, 246, 248, 249, 257, 269C, 294, 295, 296, <b>ASAN</b> 120†, 121†, 122†, <b>DNCE</b> 153, 185, 190V, 256† (see ECED 256), 285, 290V, <b>ECED</b> 256† (see DNCE 256), <b>ENG</b> 103, 105, 204, 205† (see JOUR 205), 215, 255, 256, 257A, 257E, <b>HAW</b> 101, 102, 201, 202, <b>HIST</b> 120, 151, 152, 153, 154, 241, 242, 274, 281, 282, 284, 288, <b>HUM</b> 100, 160† (see SSCI 160), 275† (see PSY 275), <b>HWST</b> 100, 101, 102, 103, 104, 105, 106, 107, 130, 131, 140, 141, 150, 151, 160, 161, 201†, 204, 206, 219, 230, 231, 240, 241, 250, 251, 260, 261, <b>JOUR</b> 205† (see ENG 205), <b>JPNS</b> 101, 102, 121, 122, <b>LING</b> 102, 121† (see ANTH 121), 235† (see ANTH 235), <b>MUS</b> 102, <b>PHIL</b> 100, 101, 102, 120, 211, 213, 255, <b>REL</b> 150, 151, 152, 153, <b>SPCO</b> 231, 233, 251</p>	---	---	---	---	---
<p><b>2. Natural Environment Elective</b> [1 COURSE REQUIRED, 3 cr.]</p> <p>AG 122, 141, 175, 175L, 200, 250, 260, <b>ASTR</b> 110, 281, <b>BIOC</b> 241, <b>BIOL</b> 100, 100L, 101, 101L, 141, 141L, 142, 142L, 156, 156L, 171, 171L, 172, 172L, <b>BOT</b> 101, 101L, 105, 105L, 130, 130L, <b>CHEM</b> 100, 100L, 151, 151L, 161, 161L, 162, 162L, <b>GEOG</b> 101, 101L, 122, 170, 170L, 180, 180L, <b>GG</b> 101, 101L, <b>MICR</b> 130, 130L, <b>OCN</b> 201, 205, <b>PHRM</b> 203, <b>PHYS</b> 100, 100L, 105, <b>SCI</b> 124, 124L, <b>ZOOL</b> 101, 101L</p>	---	---	---	---	---
<p><b>3. Social Environment Elective</b> [1 COURSE REQUIRED, 3 cr.]</p> <p>AG 157, 230, <b>AJ</b> 101, 180, 210, 256† (see HSER/WS 256), 280, 290B, 290C, 290D, <b>ANTH</b> 121† (see LING 121), 150, 200, 235† (see LING 235), <b>ASAN</b> 120†, 121†, 122†, <b>BUSN</b> 164, <b>ECON</b> 120, 130, 131, <b>ECED</b> 105, 131, <b>FAMR</b> 230, <b>GEOG</b> 102, <b>HD</b> 234, <b>HSER</b> 110, 140, 141† (see SUBS 141), 248† (see SUBS 248), 256† (see AJ/WS 256), <b>HWST</b> 201†, <b>ICS</b> 100, <b>IS</b> 101, <b>MGT</b> 124, <b>POLS</b> 110, <b>PSY</b> 100, 170, 214, 230, 270, 275† (see HUM 275), <b>SOC</b> 100, 208, 218, 251, 265, 289, 290, <b>SPCO</b> 130, 151, 260, <b>SSCI</b> 111, 150, 160† (see HUM 160), 250, <b>SUBS</b> 141† (see HSER 141), 248† (see HSER 248), 268, 270, 275, 280, <b>WS</b> 151, 256† (see AJ/HSER 256)</p>	---	---	---	---	---
<p><b>Total Credits:</b>     <u>7</u>            <u>12</u>            <u>39</u>            <u>62</u></p>					

**Courses completed that do not apply to major**

Course	Sem., Yr. & Grade	Course	Sem., Yr. & Grade

**Entry Requirements**

- Proficiency levels in both reading and mathematics must be met for entry into the program:

**Subject Area**  
 Mathematics  
 Reading

**Placement into course**  
 MATH 24 or 66  
 ENG 21 or ESL 21

\* = No grade below “C” will be counted toward graduation

+ = Optics Technology Certificate of Competence

++ = Network Technology Certificate of Competence

† = These courses are cross-listed but will only count once for graduation requirements.

For more information on Gainful Employment on all of our programs, please visit the [programs of study](#) web page.