



# Energy Systems Technology

## Admissions Information

### Application Materials

Students wanting to apply for a degree seeking program at the College of Eastern Idaho (CEI) must submit all of the following application materials for review. Admissions counselors will evaluate the application documents to ensure everything has been completed correctly.

- Application for admission
- High School or GED Transcripts, must be official copies
- Official Transcripts from all post-secondary institutions attended
- Math and English placement

### Placement Scores

Students at CEI must have current placement into our basic math and English classes. If you need to take the ALEKS or Gain exams in order to prove placement you can schedule a time with our Testing Center by calling 208-535-5438.

Common tests and placement scores that we require are as follows:

Placement Test	English Score	Math Score
ACT	18 or higher	19 or higher
SAT	500 or higher	510 or higher
ALEKS Math	-	30 or higher
Gain	747 or higher	-

### Transfer Credits

If you have attended any other college or universities you will need to send your official transcripts to CEI. It's possible for previously completed courses to transfer in to fulfill specific degree requirements. Please note the following guidelines from transfer course work to CEI:

- All transfer classes must have a final grade of a C or higher
- Only classes required for your program will be transferred in
- Some classes (like math and biology) can expire after 5 years

An admissions advisor can do an unofficial review of your transfer credits. The official evaluation is done after the admissions process is completed and will be available to the student at their New Student Orientation.

### Student Orientation, Advising, and Registration (SOAR)

After you have received an acceptance letter into the college you will be required to attend a Student Orientation, Advising, and Registration. You will be able to enroll in classes during this event and it is the last step in the admissions process.

### Financial Aid

This program is financial aid eligible. Our school code is: 0011133. If you are planning on applying for financial aid and have any questions please contact our Financial Aid office in room # 348 or call 208-535-5374

## **ESTEC Program Information**

The Energy Systems Technology (ESTEC) program at CEI offers an Intermediate Technical Certificate (ITC) that is 2 semesters and 40 credits. The last year of the program is provided at Idaho State University where students will complete an associate degree.

When students are accepted into the ESTEC program they will be placed into a cohort for the fall semester. Once students complete the ITC they will transfer to ISU where seats reserved.

### **Program Overview**

The College of Eastern Idaho provides the first year of this two year program at the Idaho Falls campus. After completion of the first year, students will then be qualified to enter the second year program at Idaho State University. The lab facilities at CEI and ISU are second to none in the country giving students an excellent hands-on experience.

Students in the ESTEC program will have the opportunity to get hands-on experience in many facets of the energy world. They are taught the skills to work with large industrial grade motors, generators, protective relaying and other high voltage/high current (220, 440, and higher) electrical equipment and the interconnecting wiring and control circuits. Additionally, students will learn how to operate electrical power generation systems, lighting systems, and all plant electrical equipment including the installation, operation, adjustment, routine maintenance, inspection, and test and repair.

The ESTEC program has developed partnerships with energy utilities and vendors such as Idaho National Laboratory (INL) and Partners for Prosperity. These partnerships assure that program graduates enter the workforce with the precise skills required by industry. Students are taught through traditional classroom experiences as well as extensive lab exercises. This will provide students with a well-rounded education that will help them be successful professionals.

Once students complete the ESTEC program at CEI and ISU they will be prepared to enter into the energy solutions workplace. There are many career opportunities for students graduating this program. A few jobs include power generating plants that use coal, gas, hydro, nuclear, solar, and wind, and electric load dispatch centers. Job titles for an ESTEC graduate can range from technician, journeyman, group leader or supervisor, or group manager.

### **Program Requirements**

- In order for students to be accepted into the Energy Systems Technology program they must complete the CEI application process (see page 1).
- Must meet placement requirements to get into **ELT 141 (ALEKS Math score >30)**.
- Once in the program, students must pass their program specific courses with a minimum grade of C (75%) or higher and must be passed consecutively before continuing on to the next course.
- After students finish the program at CEI with sufficient courses and grades they can then transfer to ISU.

### **Competitive Program**

The Energy Systems Technology program is competitive. There are 15 seats available each year. Students will be put on our waitlist in the order we receive their application materials. In order to increase your chances of entering the program early you must submit your application, transcripts, and test scores to CEI as soon as possible. If a student is not accepted into the program for the fall they will remain on the waitlist until they are accepted. Once you complete the 2 semesters with a passing grade then seats will be saved for you at the ISU campus to finish out the ESTEC associate degree.

### **Message from the Faculty**

- “This program fills the gap between engineers and electricians.”
- “There are a lot of opportunities for women in this field.”
- “Our graduates work with a variety of different employers.”

### **Message from the students**

- “The professor is a real mentor, he really practices his trade.”
- “Take Math 108, it will be very helpful for this program.”
- “The program is very hands-on, for a visual learner it is awesome.”
- “Apply for scholarships right away.”
- “It is challenging but very fun.”
- “Take your General Education courses before you start the program if you can, it will help with the work load.”

### **Contacting Admissions**

If you have any questions about the Automotive Technology program, or the application process we would be happy to go over it with you.

#### **To schedule an appointment**

Student Affairs  
Room #311  
Phone: 208-535-3000

#### **Admissions Counselor**

Courtney Richert  
Phone: 208-535-5510  
Email: [Courtney.Richert@cei.edu](mailto:Courtney.Richert@cei.edu)

#### **ESTEC Specific Questions**

Lorin McArthur  
Phone: 208-535-5450  
Email: [Lorin.McArthur@cei.edu](mailto:Lorin.McArthur@cei.edu)

## Program Cost

*Costs are subject to change*

### Intermediate Technical Certificate

ESTEC. ITC Tuition		ESTEC. ITC Books	
Semester 1	\$2,451.00	Semester 1	\$490.00
Semester 2	\$2,709.00	Semester 2	\$360.00
	<b>\$5,160.00</b>		<b>\$850.00</b>

  

ESTEC. ITC Fees and Supplies		Totals	
ISCET Testing Fee	\$40.00	Tuition	\$5,160.00
Supply Fee	\$30.00	Books	\$850.00
Tools	\$200.00	Fees/Tools	\$270.00
	<b>\$270.00</b>		<b>\$6,280.00</b>

## Program Course List

***Bold** courses indicate they are general education courses and can be taken during any semester.*

*To plan ahead, you can take MAT 143 or MAT 253 and ENG 101 to fulfill Idaho State University's course requirements.*

### Energy Systems Technology Intermediate Technical Certificate (ITC) 40 Credits / Financial Aid Eligible

#### Fall Semester 1

Course	Course Name	Credits
ESE 100	Engineering Technology Orientation	1
ESE 100L	Engineering Technology Lab	1
ELT 141	Applied Mathematics I	4
ELT 153	Electronic Theory	5
ELT 155	Electronics Lab	5
<b>COMM 101</b>	<b>Fundamentals of Oral Communication</b>	<b>3</b>

#### Spring Semester 2

Course	Course Name	Credits
ELT 142	Applied Mathematics II	4
ELT 154	Electronic Control Devices Theory	5
ELT 156	Electronic Control Devices Lab	5
ESE 110	Introduction to Process Control	1
ESE 110L	Intro to Process Control Lab	1
<b>PHYS 101</b>	<b>Survey of Physics</b>	<b>3</b>
<b>PHYS 101L</b>	<b>Survey Physics Lab</b>	<b>1</b>
BOT 150	Employment Strategies with <i>McArthur, L</i>	1

## Tool List

### ESTEC Program at CEI

***\*Wait until the first day of class to purchase\****

- Wire stripper
- Diagonal Pliers
- Needle/long nose pliers 4 1/2"
- Screwdriver, slotted 3/16 & 1/4" tips
- Screwdriver, Phillips #0 & #1 tips
- Screwdriver, Precision/Jewelers set
- Crescent wrenches (small and medium)
- Safety glasses
- Tool Box with lock (large enough to store volt-ohm meter)
- Digital Volt-Ohm-Mili-ammeter (see specifications below)
  - DC Voltage ranges = 2V, 20V, 200V, 600V
  - Resistance ranges = <math><200\Omega</math>, 2K $\Omega$ , 200K $\Omega$ , 2M $\Omega$ , 20M $\Omega$
  - AC Current ranges = <math><200\text{mA}</math>, 20A
  - DC Current ranges = <math><20\mu\text{A}</math>, 200 $\mu\text{A}</math>, 200mA, 10A$
  - Input Impedance = 10 – 12 M $\Omega$

# APPLY TO College of Eastern Idaho **IN 4 STEPS!**

**1.**



## Fill Out the Application

Apply online at [cei.edu](http://cei.edu)

**2.**



## Give Us Your Transcripts

Have your high school or school district office email your Official Transcripts to [admissions@cei.edu](mailto:admissions@cei.edu)

**OR** request your GED from [diplomasender.com](http://diplomasender.com)

**3.**



## Have You Gone to Other Colleges?

Contact each college or university you have attended and request all Official Transcripts be sent to CEI

Email: [admissions@cei.edu](mailto:admissions@cei.edu)

Fax: **208.525.5026, Att. Sandy Bland**

**4.**



## Submit English & Math Placement Scores

ACT/SAT scores within the last five years,  
**OR** a placement test at CEI

**Call the Testing Center: 208.535.5438** *Refer to catalog for acceptable placement options and program-specific requirements.*



**Optional Step**



## Apply for Scholarships & Financial Aid

Apply yearly!

The CEI Scholarship deadline for the 2019-2020 year ends on February 8th, 2019. [ceigiving.org/scholarship](http://ceigiving.org/scholarship)

Federal Student Aid resets each year. You can apply for grants and low-interest loans. [fafsa.ed.gov](http://fafsa.ed.gov)