

SKILL AWARD IN ENGINE REBUILDING AND MACHINING

The High Performance Institute offers a Skill Award in Engine Rebuilding and Machining. The field of automotive engine rebuilding and machining offers many exciting career opportunities in industry, including: machine shop operator, prototype building, engine evaluation and engineering, materials engineering, powertrain tuning and design, and advanced technical research. The Engine Rebuilding and Machining Skill Award provides a solid background in engine design and development. Jobs include engine machinist, and machinist for research and development engine design projects.

Code	Title	Units
Required courses:		
AUTO 295	Engine Design	4
AUTO 296	Cylinder Head Development	4
AUTO 297	Cylinder Block Development	4
Total Units		12

Skill Award Level Student Learning Outcomes

Students completing the Engine Rebuilding and Machining Skill Award will:

1. Be able to evaluate an engine's mechanical condition and perform the necessary corrective actions and machining processes to return the engine to an OEM level of performance or modify the engine to achieve a higher level of performance and longevity.

Curriculum Map

1.5-Year Curriculum Map Example

This map represents one possible pathway through the program and is only for reference.

*It is highly recommended that you make an appointment (<https://www.citruscollege.edu/stdntsrvcounsel/Pages/ApptSchedule.aspx>) to create a customized education plan that fits your needs.

Course	Title	Units
Fall Term 1		
AUTO 296	Cylinder Head Development	4
Completion of AUTO 295 in summer		
Units		4
Spring Term 1		
AUTO 297	Cylinder Block Development	4
Units		4
Total Units		8

Career Information

Career Opportunities

There are a variety of careers you can do with this major.

To explore more about this major, schedule an appointment (<https://www.citruscollege.edu/stdntsrvcounsel/Pages/ApptSchedule.aspx>) with a career counselor.