

PHOTOVOLTAIC TECHNOLOGY, PROFICIENCY AWARD

The Proficiency Award in Photovoltaic (PV) Technology is designed for students who would like to develop the skills needed to work as solar technicians. It is an excellent way to obtain certification for changing careers or to gain initial employment in the field and suggests an achievement of technical skills that may be helpful in seeking immediate employment as a solar panel installer, inspector, technician, or business development specialist. The proficiency award is designed to prepare students for the North American Board of Certified Energy Practitioners (NABCEP) PV Installer Certification test, an industry standard qualification.

| Course ID | Title | Units/ Hours |
|--------------------------|--|-----------------|
| ENSC M03 | Energy Resources and Conservation | 3 |
| ENSC M07 | Applied Solar Technology | 3 |
| ENSC M07L | Applied Solar Technology Lab | 1 |
| ENSC M80 or ENSC M122 | Internship in Environmental Science Independent Study - Environmental Science | 2 |
| Total Hours | | 9 |

Year 1

| Fall Semester | | Units/Hours |
|--------------------------|---|-------------|
| ENSC M03 | Energy Resources and Conservation | 3 |
| ENSC M07 | Applied Solar Technology | 3 |
| ENSC M07L | Applied Solar Technology Lab | 1 |
| Units/Hours | | 7 |
| Spring Semester | | |
| ENSC M80 or ENSC M122 | Internship in Environmental Science or Independent Study - Environmental Science | 2 |
| Units/Hours | | 2 |
| Total Units/Hours | | 9 |

Upon successful completion of this program, students will be able to:

- properly design, install, maintain, and troubleshoot different types of photovoltaic systems.
- demonstrate an awareness of key features, adaptations, costs, safety,

and benefits associated with various loads and photovoltaic systems.

- identify and express an awareness of national electric codes, government incentives, local standards, and other regulations relevant to photovoltaic systems.