

ELECTROCHEMICAL ENGINEERING, MINOR

Program Overview

Electrochemical engineering focuses on fundamental studies and engineering design of widely used and critically important processes and equipment associated with reactions involving charge transfer. Students will gain expertise in the design of indispensable devices such as batteries and fuel-cells, and technologically important processes such as metal production and purification, semiconductor metallization, corrosion, electrodeposition, and biological separations.

Undergraduate Policies

For undergraduate policies and procedures, please review the Undergraduate Academics section of the General Bulletin.

Program Requirements

Students take five courses to complete the minor.

Code	Title	Credit Hours
Required Courses:		
ECHE 381	Electrochemical Engineering	3
ECHE 384	Corrosion Fundamentals	3
<i>Choose three of the following:</i>		<i>9-10</i>
ECHE 372	Electrochemical Energy Storage	
ECHE 383	Chemical Engineering Applied to Microfabrication and Devices	
EMSE 343	Processing of Electronic Materials	
ECSE 309	Electromagnetic Fields I	
ECSE 321	Semiconductor Electronic Devices	
Total Credit Hours		15