

Courses for Students Pursuing a Minor in Chemical and Materials Engineering in the College of Engineering

Course Titles	Course Credit Hours	Notes
Introduction to Materials Science, Materials Engineering & Chemical Engineering CH1013, CH1014	3,3	1. Students are required to take at least 20 credit hours of courses from this list; course credit hours thus earned cannot be counted toward the student's minimum baccalaureate graduation requirements for the department in which they are majoring. 2. The aforementioned courses must include one course from each of the following four categories: (1) Transport Phenomena and Unit Operation I, Transport Phenomena and Unit Operation II, Transport Phenomena and Unit Operation III (choose one course from these three); (2) Chemical Reaction Engineering; (3) Instrumental Analysis; (4) Introduction to Materials Science, Materials Engineering & Chemical Eng. (for at least one semester).
Chemical and Materials Engineering Thermodynamics I CH3059	3	
Chemical and Materials Engineering Thermodynamics II CH3060	3	
Instrumental Analysis CH3012	3	
Transport Phenomena and Unit Operation I CH2021	3	
Transport Phenomena and Unit Operation II CH3042	3	
Transport Phenomena and Unit Operation III CH3043	3	
Introduction to Solid State Physics CH3055	3	
Chemical Reaction Engineering CH3011	3	
Process Design CH4004	3	
Numerical Analysis CH4012	3	
Polymer Physics CH4057	3	
Polymer Chemistry CH4056	3	
Electronic and Ceramic Materials CH4051	3	
Biochemical Engineering CH8041	3	
Energy Materials CH8092	3	
Inorganic and Materials Chemistry CH2023, CH2024	3,3	
Total Course Credit Hours	57	