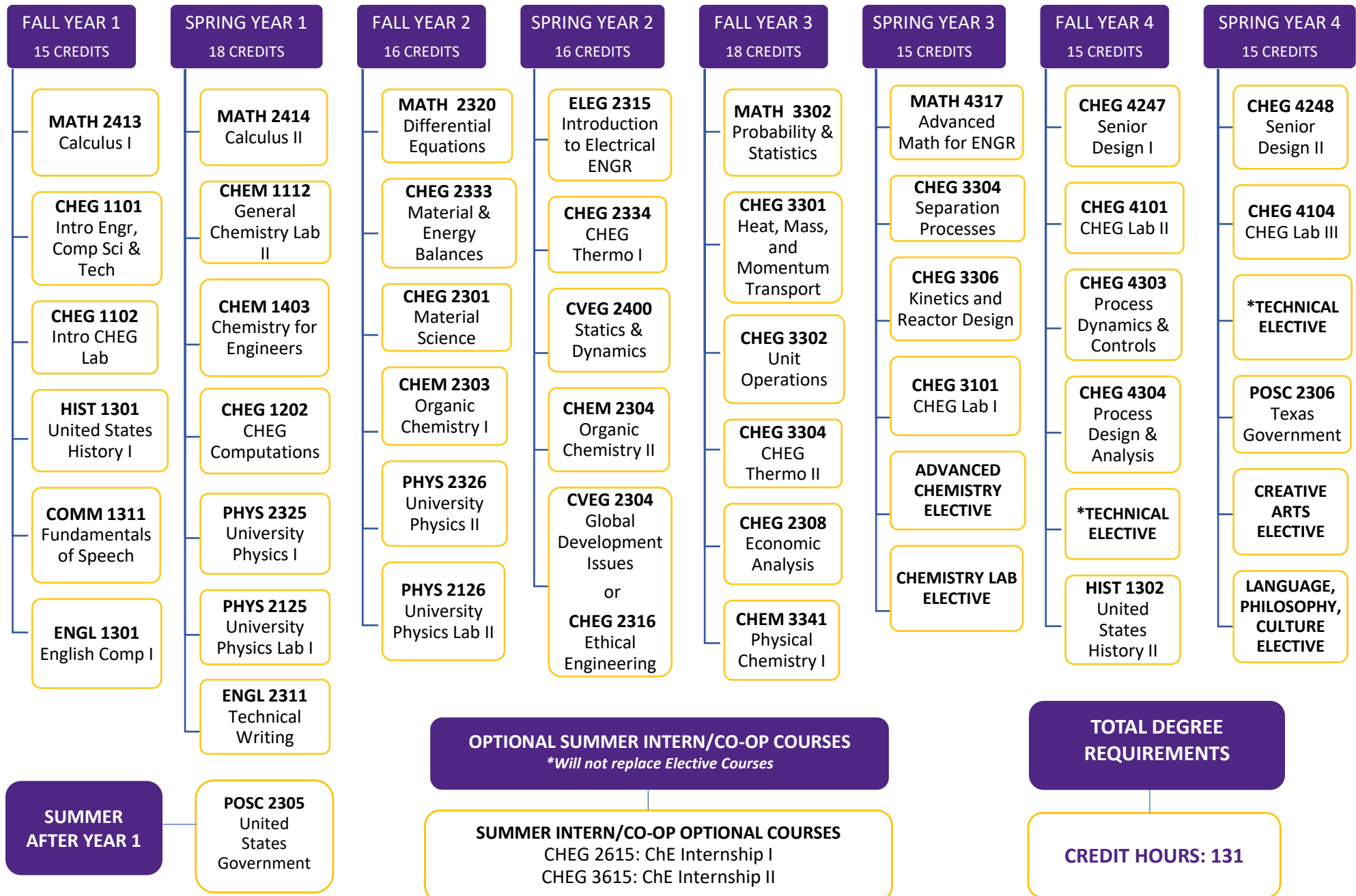




# Chemical Engineering Department

## B.S. Chemical Engineering Degree Requirements - Fall 2022 – Present



## CHEG COURSE PREQUISITES AND CO-REQUISITIES

<u>CHEMICAL ENGINEERING COURSES</u>	<u>Co-requisite</u>	<u>Pre-requisite</u>
CHEG 1101 Intro Engr, Comp Sci & Tech	CHEG 1102	
CHEG 1102 Intro CHEG Lab	CHEG 1101	
CHEG 1202 Introduction to Computations in CHEG	MATH 2413	CHEG 1102
CHEG 2301 Materials Science		CHEM 1304 or CHEM 1403
CHEG 2308 Eco Anal Technical Application		MATH 2413
CHEG 2316 Ethical Engineering in a Global Society		CHEG 1101 or equivalent
CHEG 2333 Material and Energy Balances		CHEM 1304 or CHEM 1403; PHYS 2325; CHEG 1202
CHEG 2334 Chemical Engineering Thermodynamics I		CHEG 2333
CHEG 3101 Chemical Engineering Laboratory I	CHEG 3301, CHEG 3304, MATH 3302	PHYS 2125; PHYS 2126; CHEM 1112; COMM 1311; ENGL 1302 or ENGL 2311
CHEG 3301 Heat, Mass, and Momentum Transport		CHEG 2334; MATH 2320
CHEG 3302 Unit Operations		CHEG 2333
CHEG 3304 Chemical Engineering Thermodynamics II		CHEG 2334
CHEG 3305 Equilibrium Stage Separation Processes		CHEG 2333; CHEG 3304
CHEG 3306 Chemical Reaction Kinetics and Reactor Design		MATH 2320; CHEG 2301; CHEG 3304
CHEG 4101 Chemical Engineering Laboratory II		CHEG 3302; CHEG 3304; COMM 1311; ENGL 1302 or ENGL 2311; PHYS 2125; PHYS 2126; CHEM 1112
CHEG 4104 Chemical Engineering Laboratory III		CHEG 4303; COMM 1311; ENGL 1302 or ENGL 2311; PHYS 2125; PHYS 2126; CHEM 1112
CHEG 4247 Senior Design and Professionalism -I		CHEG 3301; CHEG 3302; CHEG 3305; CHEG 3306
CHEG 4248 Senior Design and Professionalism - II		CHEG 4247
CHEG 4303 Process Dynamics and Control		CHEG 3306; MATH 4317
CHEG 4304 Chemical Process Design and Analysis		CHEG 3301; CHEG 3302; CHEG 3305; CHEG 3306

### COLLEGE ELIGIBILITY RULE: UPPER LEVEL

The Roy G. Perry College of Engineering has an eligibility standard for the students to take upper-division college courses. Students must have completed or be currently enrolled in all lower division (1000 and 2000 level) courses in English, Mathematics, Science, and Engineering to be eligible to enroll in upper-division (3000 or 4000 levels) courses in the Roy G. Perry College of Engineering.

Students transferring to the Roy G. Perry College of Engineering with 60 or more semester hours from another institution will be allowed a period of one semester to comply.

### ADDITIONAL COURSE INFORMATION

- Options for the Creative Arts Elective and the Language, Philosophy, and Culture Elective are posted online under the University's Core Curriculum.
- Only Engineering courses satisfy the Technical Elective requirements.
- Advanced Chemistry elective options include CHEM 3342, CHEM 4302, CHEM 4303, CHEM 4305, CHEM 4306, or another course as approved by the department.
- CHEM 1403 may be replaced with a combination of CHEM 1303 and 1304.
- CHEG 1202 may be replaced by a computer programming course such as the TCCNS course ENGR 2304 Programming for Engineers.