

# CHEMISTRY

## 2019–2020 ACADEMIC YEAR

Name: \_\_\_\_\_

I.D. Number: \_\_\_\_\_

**CORE OF DISCOVERY** (42)

- \_\_\_\_\_ First Year Seminar (2)
- \_\_\_\_\_ LENG 111 College Composition (3)
- \_\_\_\_\_ LENG 112 Critical Analysis & Composition (3)
- \_\_\_\_\_ LENG Literature Series (3)
- \_\_\_\_\_ LTHE 101 Foundations Theology/Morality (3)
- \_\_\_\_\_ LTHE 201 The Bible: An Introduction (3)
- \_\_\_\_\_ LPHI 131 Introduction to Philosophy (3)
- \_\_\_\_\_ LPHI Philosophy II Series\* (3)
- \_\_\_\_\_ LPHI 237 or any 300-level LTHE course (3)
- \_\_\_\_\_ LFIN Fine Arts Series\* (3)
- \_\_\_\_\_ LHST 111 History Without Borders (3)
- \_\_\_\_\_ SPCH 111 or SPCH 113 (3)
- \_\_\_\_\_ Social Science Elective\* (3)
- \_\_\_\_\_ LBST 383 Senior Seminar (3)
- \_\_\_\_\_ Leadership Seminar (1)

\* Refer to Undergraduate Catalog for course options.

**MATHEMATICS** (6)

- \_\_\_\_\_ MATH 140 Calculus I (3)
- \_\_\_\_\_ MATH 141 Calculus II (3)

**PHYSICS** (8)

- \_\_\_\_\_ PHYS 210 Fundamentals of Physics I (3)
- \_\_\_\_\_ PHYS 211 Fundamentals of Physics I Lab (1)
- \_\_\_\_\_ PHYS 212 Fundamentals of Physics II (3)
- \_\_\_\_\_ PHYS 213 Fundamentals of Physics II Lab (1)

**OR**

- \_\_\_\_\_ PHYS 105 College Physics I (3)
- \_\_\_\_\_ PHYS 106 College Physics I Lab (1)
- \_\_\_\_\_ PHYS 108 College Physics II (3)
- \_\_\_\_\_ PHYS 109 College Physics II Lab (1)

**CHEMISTRY ELECTIVES\*\*** (11)

\*\* Must be 200-, 300-, or 400-level CHEM courses.

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**CHEMISTRY** (39)

- \_\_\_\_\_ CHEM 111 General Chemistry I (3)
  - \_\_\_\_\_ CHEM 112 General Chemistry I Lab (1)
  - \_\_\_\_\_ CHEM 114 General Chemistry II (3)
  - \_\_\_\_\_ CHEM 115 General Chemistry II Lab (1)
  - \_\_\_\_\_ CHEM 221 Organic Chemistry I (3)
  - \_\_\_\_\_ CHEM 222 Organic Chemistry I Lab (1)
  - \_\_\_\_\_ CHEM 224 Organic Chemistry II (3)
  - \_\_\_\_\_ CHEM 225 Organic Chemistry II Lab (1)
  - \_\_\_\_\_ CHEM 325 Organic Spectroscopic Mthds (3)
  - \_\_\_\_\_ CHEM 326 Organic Spectroscopic Mthds Lab (1)
  - \_\_\_\_\_ CHEM 331 Physical Chemistry I (3)
  - \_\_\_\_\_ CHEM 332 Physical Chemistry I Lab (1)
  - \_\_\_\_\_ CHEM 334 Physical Chemistry II (3)
  - \_\_\_\_\_ CHEM 335 Physical Chemistry II Lab (1)
  - \_\_\_\_\_ CHEM 336 Intro to Modern Analy Chem (3)
  - \_\_\_\_\_ CHEM 337 Intro to Modern Analy Chem Lab (2)
  - \_\_\_\_\_ CHEM 356 Chemical Literature (1)
  - \_\_\_\_\_ CHEM 361 Advanced Inorganic Chemistry (3)
  - \_\_\_\_\_ CHEM 380/381/382 Undergraduate Research (2)
- (one credit each of two semesters)

**TECHNICAL ELECTIVES\*\*** (21)

\*\* See academic advisor or GU Catalog. MATH 111 and MATH 112 may be used if required before MATH 140.

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**GENERAL ELECTIVE** (1)

\_\_\_\_\_ (1)

**Minimum Total Credits: 128**  
**Effective Date: Fall 2019**

# CHEMISTRY

## 2019–2020 ACADEMIC YEAR

Name: \_\_\_\_\_

I.D. Number: \_\_\_\_\_

### FRESHMAN

#### Fall (16 credits)

- 3 CHEM 111: General Chemistry I
- 1 CHEM 112: General Chemistry I Lab
- 3 MATH 140: Calculus I
- 3 LENG 111: College Composition
- 4 Technical Electives\*\*
- 2 First-Year Seminar

#### Spring (17 credits)

- 3 CHEM 114: General Chemistry II
- 1 CHEM 115: General Chemistry II Lab
- 3 MATH 141: Calculus II
- 3 LENG 112: Critical Analysis & Composition
- 4 Technical Electives\*\*
- 3 LTHE 101: Foundations of Theology and Morality

### SOPHOMORE

#### Fall (17 credits)

- 3 CHEM 221: Organic Chemistry I
- 1 CHEM 222: Organic Chemistry I Lab
- 3 PHYS 210: Fundamentals of Physics I
- 1 PHYS 211: Fundamentals of Physics I Lab
- 3 LHST 111: History without Borders
- 3 LPHI 131: Introduction to Philosophy
- 3 Social Science

#### Spring (18 credits)

- 3 CHEM 224: Organic Chemistry II
- 1 CHEM 225: Organic Chemistry II Lab
- 3 PHYS 212: Fundamentals of Physics II
- 1 PHYS 213: Fundamentals of Physics II Lab
- 4 Technical Electives\*\*
- 3 LENG: Literature Series
- 3 SPCH 111: Public Speaking  
or SPCH 113: Human Communication

### JUNIOR

#### Fall (17 credits)

- 3 CHEM 331: Physical Chemistry I
- 1 CHEM 332: Physical Chemistry I Lab
- 3 CHEM 325: Organic Spectroscopic Methods
- 1 CHEM 326: Organic Spectroscopic Methods Lab
- 3 Technical Electives\*\*
- 3 LTHE 201: The Bible
- 3 LPHI: Philosophy II Series

#### Spring (14 credits)

- 3 CHEM 334: Physical Chemistry II
- 1 CHEM 335: Physical Chemistry II Lab
- 3 CHEM 336: Intro to Modern Analytical Chemistry
- 2 CHEM 337: Intro to Modern Analytical Chemistry Lab
- 1 CHEM 356: Chemical Literature
- 3 LPHI 237 or any 300-level LTHE course
- 1 Leadership Seminar

### SENIOR

#### Fall (15 credits)

- 3 CHEM 361: Inorganic Chemistry
- 1 CHEM 380–382: Undergraduate Research
- 3 LFIN: Fine Arts Series
- 4 Chemistry Electives\*\*
- 3 Technical Electives\*\*
- 1 General Elective

#### Spring (14 credits)

- 7 Chemistry Electives\*\*
- 3 Technical Electives\*\*
- 3 LBST 383: Senior Seminar
- 1 CHEM 380–382: Undergraduate Research

**TOTAL = 128 CREDITS**

\*\* Please consult with your advisor.