with a minor in

# **THEATRICAL ENGINEERING**

2023-2024 Degree Requirements

TOTAL CREDITS FOR DEGREE AND MINOR:	146
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Name: ID Number:

### **UNIVERSITY CORE CURRICULUM:** 43 cr.

#### **Required Fundamental Courses:**

COMM 101 Oral Comm. & Pres. 3 credits
ENGL 101 College Composition 3 credits
UNIV 101 City-University Life 3 credits

Senior Capstone TE 402 3 credits (Prof Prac in Theatrical Engr II)

Choose Thematic Core courses in the following:

Explore the World - Choice 1 THEA 225 3 credits (Theatre History I)

Explore the World - Choice 2 THEA 226 3 credits (Theatre History II)

Investigate Science CHEM 101 3 credits (General Chemistry I)

Investigate Mathematics MATH 190 4 credits (Calculus I)

Interpret Creative Works 3 credits
Understand People - Choice 1 3 credits
Understand People - Choice 2 3 credits
Succeed in Business 3 credits

Appreciate & Apply the Arts THEA 230 3 credits (Introduction to Theatre)

Discover Technology TE 101 3 credits (Intro to Theatrical Engineering)

#### MAJOR REQUIREMENTS: 88 cr.

CHEM 103 General Chemistry Laboratory I (1)		EE 101	Circuit Analysis I (3)
		EE 102	Circuit Analysis II (3)
MATH 210 Calculus II (4)		EE 103	Circuit Analysis Laboratory I (1)
MATH 230 Linear Algebra (3)		EE 104	Circuit Analysis Laboratory II (1)
MATH 300 Calculus III (4)		EE 221	Electronics I (4)
MATH 310 Differential Equations (3)		EE 222	Electronics II (4)
MATH 330 Mathematical Statistics (3)		EE 331	Electrical Power I (4)
		EE 332	Electrical Power II (4)
PHYS 201	Fundamentals of Physics I (3)	EE 351	Digital Electronics I (4)
PHYS 202	Fundamentals of Physics II (3)	EE 352	Microprocessors I (4)
PHYS 103	Physics Laboratory I (1)	EE 375	Signals and Systems (4)
PHYS 104	Physics Laboratory II (1)		
		Technical Electives-Choose 16 cr.	
ET 204	Programming for Eng Tech (3)	EE 415	Electromagnetics (4)
ET 405	Fund Of Engineering Exam I (0)	EE 425	Power Electronics (4)
ET 406	Fund Of Engineering Exam II (0)	EE 435	Electrical Distribution Systems (4)
TE 401	Prof Practice in Theatrical Engr I (3)	EE 445	Control Systems (4)
		EE 455	Digital Electronics II (4)
ME 101	Statics (3)	EE 465	Communication Electronics (4)
ME 102	Dynamics (3)	EE 467	Digital Signal Processing (4)

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#### PREREQUISITE AND CO-REQUISITE COURSES FOR THE MINOR: 12 cr.

TE 101 Introduction to Theatrical Engineering (3)

THEA 225 Theatre History I (3) THEA 226 Theatre History II (3)

THEA 230 Introduction to Theatre (3)

### **COURSES REQUIRED TO COMPLETE THE MINOR: 21 cr.**

PROD 100 Technical Practicum I (2)

PROD 101 Technical Practicum II (2)

PROD 124 Fundamentals of Design and Drawing (3)

PROD 226 Scene Design I (3)

PROD 227 Lighting I (3)

PROD 229 Audio Design I (2)

TE 401 Professional Practice in Theatrical Engineering I (3)

TE 402 Professional Practice in Theatrical Engineering II (3)

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#### STUDENT OUTCOMES

#### Upon successful completion of this program:

- 1) Students will identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- 2) Students will apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- 3) Students will communicate effectively with a range of audiences.
- 4) Students will recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- 5) Students will function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- 6) Students will develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions.
- 7) Students will acquire and apply new knowledge as needed, using appropriate learning strategies.

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#### **EE Course Number Key**

The first digit represents the course's level:

1xx = freshman

2xx = sophomore

3xx = junior

4xx = senior

The second digit represents the course's curricular area:

x0x = networks

x1x = electromagnetics

x2x = electronic devices and circuits

x3x = power machines and systems

x4x = controls

x5x = digital electronics and systems

x6x = communications and signal processing

x7x through x9x = general topics

The third digit represents the course's position in a sequence:

xx5 through xx9 = stand-alone course that is not part of a sequence

xx1 = first course in a sequence

xx2 = second course in a sequence