## REQUIREMENTS FOR THE BACHELOR OF SCIENCE GALLOGLY COLLEGE OF ENGINEERING THE UNIVERSITY OF OKLAHOMA

| Academic Year |
| :---: |
|  |
| For Students Entering the Oklahoma |
| State System for Higher Education |
| Summer 2023 through Spring 2024 |


| General Requirements |  |
| :---: | :---: |
| Minimum Total Credit Hours | 130 |
| Minimum Retention/Graduation Grade Point Averages: |  |
| Overall - Combined and OU ... | 2.00 |
| Major - Combined and OU . | 2.00 |
| Curriculum - Combined and OU | 2.00 |


| Program |
| :---: |
| Architectural Engineering |
| B035 |
| Bachelor of Science |

OU encourages students to complete at least 33 hours of applicable coursework each year to have the opportunity to graduate in 4 years.

## GENERAL EDUCATION AND COLLEGE REQUIREMENTS

Courses designated as Core I, II, III, IV, or V are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list, including at least one upper-division Gen. Ed. course outside of the student's major. Courses graded P/NP will not apply.

A grade of C or better is required in each course in the curriculum, including all prerequisite courses.

## UNIVERSITY-WIDE GENERAL EDUCATION (MINIMUM 40 HOURS) AND COLLEGE REQUIREMENTS

| Code | Title | Credit Hours |
| :---: | :---: | :---: |
| Core Area I: Symbolic and Oral Communication |  |  |
| English Composition |  |  |
| ENGL 1113 | Principles of English Composition | 3 |
| ENGL 1213 | Principles of English Composition | 3 |
| or EXPO 1213 | Expository Writing |  |

Language (0-10 hours in the same language)
This requirement can be met by two years of the same language in high school:
Beginning Course ( $0-5$ hours)

Beginning Course ( $0-5$ hours)
Beginning Course, continued ( $0-5$ hours)
Mathematics
MATH 1914 Differential and Integral Calculus I (Core I) ${ }^{1,2}$

Core Area II: Natural Science (including one laboratory)
PHYS $2514 \quad$ General Physics for Engineering and Science Majors (Core
II) ${ }^{2}$
$\begin{array}{ll}\text { CHEM 1315 } & \text { General Chemistry (Core II-Lab) }{ }^{2} \\ \text { or CHEM 1335 } & \text { General Chemistry I: Signature Cour }\end{array}$
Core Area III: Social Science
P SC 1113 American Federal Government 3
Choose one course ${ }^{3}$ 3

Core Area IV: Arts \& Humanities
Artistic Forms
Choose one course ${ }^{3}$
Western Culture
HIST $1483 \quad$ United States to 1865
or HIST 1493 United States, 1865 to the Present
Will be satisfied in major requirements
ARCH $2243 \quad$ History of the Built Environment I (Core IV-Western
Culture)
World Culture
ANTH 4623
Approaches to Cross-Cultural Human Problems (or approved substitute Core IV-World Culture) ${ }^{3}$

3
Core Area V: First-Year Experience
Choose one course ${ }^{3}$
Total Credit Hours $\quad 3747$

1MATH 1823, MATH 2423, MATH 2433 , and MATH 2443 sequence can be substituted for MATH 1914, MATH 2924, and MATH 2934.
2Major support requirements that also satisfy University General Education requirements.
${ }^{3}$ To be chosen from the University-Wide General Education Approved Course List. Three of these hours must be upper-division (3000-4000).

## FREE ELECTIVES

Electives to bring total applicable hours to the minimum total required for the degree including a minimum of 40 upper-division hours.

Bachelor of Science in Architectural Engineering accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Architectural and Similarly Named Program Criteria.
In order to progress in your curriculum in the Gallogly College of Engineering, and as a specific graduation requirement, a grade of C or better is required in each course in the curriculum, including all prerequisite courses.

## MAJOR REQUIREMENTS

$\begin{array}{llr}\begin{array}{l}\text { Code } \\ \text { Required Courses }\end{array} & \text { Title } & \text { Credit Hours } \\ \text { AME } 2213 & \text { Thermodynamics } & 3\end{array}$
AME 2213 Thermodynamics 3
AME 3173 Heat Transfer
AME 4653 Air Conditioning Systems
Methods II Pattern of Architecture 3
ARCH 2243 History of the Built Environment I 3
ARCH 2363 Materials and Form 3
CEES $1000 \quad$ CEES Seminar (minimum of four semesters required) 0
CEES 1111 Exploring CEES 1
CEES 2113 Statics 3
CEES 2153 Mechanics of Materials 3
CEES 2213 CADD Fundamentals 3
CEES 2223 Fluid Mechanics 3
CEES 3263 Introduction to Dynamics for Architectural and Civil 3
Engineers
CEES $3361 \quad$ Soil Mechanics Laboratory 1
CEES 3363 Soil Mechanics 3
CEES 3403 Materials 3
CEES 3413 Structural Analysis I 3
CEES 3453 Introduction to Construction Management 3
CEES 3663 Structural Design - Steel I 3
CEES 3673 Structural Design - Concrete I 3
CEES 4113 Building Lighting and Electrical Systems 3
CEES $4333 \quad$ Foundation Engineering 3
CEES 4753 Structural Design - Wood 3
3 CEES $4991 \quad$ Introduction to AE Capstone 1
CEES 4993 Architecture Engineering Capstone 3
3 ENGR 2431 Electrical Circuits 1
ENGR $3401 \quad$ Engineering Economics 1
0 Professional Elective

| Choose any 3000-level or higher course in CEES | 3 |
| :--- | ---: |
| Total Credit Hours | $\mathbf{7 1}$ |

## MAJOR SUPPORT REQUIREMENTS

| Code | Title | Credit Hours |
| :--- | :--- | ---: |
| Math and Science |  |  |
| MATH 2924 | Differential and Integral Calculus II | 4 |
| MATH 2934 | Differential and Integral Calculus III | 4 |
| MATH 3113 | Introduction to Ordinary Differential Equations | 3 |
| PHYS 2524 | General Physics for Engineering and Science Majors | 4 |
| Choose one of the following: | 4 |  |

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\begin{array}{ll}
\text { GEOL } 1114 & \begin{array}{l}
\text { Physical Geology for Science and Engineering Majors } \\
\text { (Core II-Lab) }
\end{array}
\end{array}
$$

Basic Science Elective
Math (calculus or above)
Additional College Requirements

| ENGR 1410 | Freshman Engineering Orientation $^{1}{ }^{1}$ | 0 |
| :--- | :--- | ---: |
| ENGR 1411 | Pathways to Engineering Thinking ${ }^{1}$ | 1 |
| ENGR 2002 | Professional Development | 2 |
| Total Credit Hours |  | $\mathbf{2 2}$ |

1Engineering transfer students may take ENGR 3410 in place of ENGR 1410 and ENGR 3511 in place of ENGR 1411.

More information in the catalog: (http://ou-public.courseleaf.com/gallogly-engineering/ civil-engineering-environmental-science/architectural-engineering-bachelor-science/).

## SUGGESTED SEMESTER PLAN OF STUDY

Bachelor of Science in Architectural Engineering accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Architectural and Similarly Named Program Criteria.

In order to progress in your curriculum in the Gallogly College of Engineering, and as a specific graduation requirement, a grade of C or better is required in each course in the curriculum, including all prerequisite courses.

Two college-level courses in a single world language are required; this may be satisfied by successful completion of 2 years in a single world language in high school. Students who must take a language at the University will have an additional 6-10 hours of coursework.


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[^0]:    1 MATH 1823, MATH 2423, MATH 2433, and MATH 2443 sequence can be substituted for MATH 1914, MATH 2924, and MATH 2934.
    2 Engineering transfer students may take ENGR 3410 in place of ENGR 1410 and ENGR 3511 in place of ENGR 1411.
    3 Students must complete a minimum of four semesters of CEES 1000.
    4 CHEM 1315 can be substituted with CHEM 1335 (Fall only).
    5 Professional Elective can be chosen from any 3000-level or higher course in CEES
    6 To be chosen from the University-Wide General Education Approved Course List. Three of these hours must be upper-division (3000-4000). See list in the Class Schedule.

