



**OKLAHOMA CITY**

# **BACHELOR OF TECHNOLOGY**

**ENGINEERING TECHNOLOGIES B. T.****Bachelor of Technology****Automation Concentration****Degree Sheet**

2024-2025 Catalog

General Education Requirements				40 Credit Hours	Credit Hours	Prerequisites
	ENGL	1113	English Composition I		3	[R] [W]
	ENGL	1213	English Composition II		3	ENGL 1113
	Select One				3	[R] [W]
	SPCH	1113	Introduction to Speech Communication			
	SPCH	2723	Interpersonal Communication			
	Select One:				3	[R] [W]
	HIST	1483	US History to 1865			
	HIST	1493	US History Since 1865			
	POLS	1113	American Government		3	[R] [W]
	PSYC	1113	Introductory Psychology		3	[R] [W]
	Select One:				3	[R] [W]
	PHIL	1213	Introduction to Ethics			
	PHIL	1313	Critical Thinking			
	SOC	3623	Cultural Diversity		3	Junior Standing
Select any 3 credit hours of college-level science courses						
					3	Varies
	PHYS	1114	General Physics I		4	[R], MATH 1483 or MATH 1513
	MATH	1513	Precalculus I		3	[M]
	STAT	2013	Elementary Statistics		3	[M]
	MATH	2103	Business Calculus		3	MATH 1483
Support and Related Courses				6 Credit Hours		
	CIS	1123	Programming Fundamentals		3	[R]
	MGMT	2143	Organizational Leadership		3	[R] [W]
Completed Associate Degree				35 Credit Hours		
	Engineering Technology A.A.S. degree with 35 technical hours				35	Varies
Selective admission into the following courses is required, based on certain criteria. For admission requirements, visit <a href="https://osuokc.edu/ENGT">osuokc.edu/ENGT</a>						
Required Core Courses				40 Credit Hours		
	GENT	1313	Introduction to Occupational Safety		3	None
	ENGT	3603	Additive Manufacturing		3	ENGT 1203
	ENGT	3904	Industry Internship		4	Junior Standing
	ENGT	4703	Industrial Simulations and Modeling		3	ENGT 2303
	ENGT	4803	Lean Manufacturing and Six sigma		3	ENGT 2323, STAT 2013
	ENGT	4812	Facilities Planning and Material Handling		2	ENGT 4703
	ENGT	4833	Industrial Economics and Cost Analysis		3	MATH 2103, STAT 2013
	ENGT	4904	Capstone Design Project		4	Department Head Approval
	ENGT	3543	Advanced Programmable Logic Controllers		3	ENGT 2333
	ENGT	3644	Industrial Robotics		4	ENGT 3543
	ENGT	4744	Industrial Automation		4	ENGT 3543
	ENGT	3574	Manufacturing Operations I		4	ENGT 1103, Pre/Coreq: MATH 2103

**ADDITIONAL GRADUATION REQUIREMENTS:**

- 2.0 Graduation/Retention GPA
- 30 credit hours earned in residence at OSU-OKC
- 60 credit hours from baccalaureate degree granting institution
- 40 credit hours of upper division
- Grade of "C" or better required in all PSM courses

**NOTES LEGEND:**

FA= Fall, SP=Spring, SU=Summer  
 [R] Reading Proficiency/Placement  
 [W] Writing Proficiency/Placement  
 [M] Math Proficiency/Placement

**ENGINEERING TECHNOLOGIES B. T.****Bachelor of Technology  
Industrial Engineering Concentration  
Degree Sheet**

2024-2025 Catalog

General Education Requirements				40 Credit Hours	Credit Hours	Prerequisites
	ENGL	1113	English Composition I		3	[R] [W]
	ENGL	1213	English Composition II		3	ENGL 1113
	Select One				3	[R] [W]
	SPCH	1113	Introduction to Speech Communication			
	SPCH	2723	Interpersonal Communication			
	Select One:				3	[R] [W]
	HIST	1483	US History to 1865			
	HIST	1493	US History Since 1865			
	POLS	1113	American Government		3	[R] [W]
	PSYC	1113	Introductory Psychology		3	[R] [W]
	Select One:				3	[R] [W]
	PHIL	1213	Introduction to Ethics			
	PHIL	1313	Critical Thinking			
	SOC	3623	Cultural Diversity		3	Junior Standing
Select any 3 credit hours of college-level science courses						
					3	Varies
	PHYS	1114	General Physics I		4	[R], MATH 1483 or MATH 1513
	MATH	1513	Precalculus I		3	[M]
	STAT	2013	Elementary Statistics		3	[M]
	MATH	2103	Business Calculus		3	MATH 1483
Support and Related Courses				6 Credit Hours		
	CIS	1123	Programming Fundamentals		3	[R]
	MGMT	2143	Organizational Leadership		3	[R] [W]
Completed Associate Degree				35 Credit Hours		
	Engineering Technology A.A.S. degree with 35 technical hours				35	Varies
Selective admission into the following courses is required, based on certain criteria. For admission requirements, visit <a href="https://osuokc.edu/ENGT">osuokc.edu/ENGT</a>						
Required Core Courses				40 Credit Hours		
	GENT	1313	Introduction to Occupational Safety		3	None
	ENGT	3603	Additive Manufacturing		3	ENGT 1203
	ENGT	3904	Industry Internship		4	Junior Standing
	ENGT	4703	Industrial Simulations and Modeling		3	ENGT 2303
	ENGT	4803	Lean Manufacturing and Six sigma		3	ENGT 2323, STAT 2013
	ENGT	4812	Facilities Planning and Material Handling		2	ENGT 4703
	ENGT	4833	Industrial Economics and Cost Analysis		3	MATH 2103, STAT 2013
	ENGT	4904	Capstone Design Project		4	Department Head Approval
	ENGT	3574	Manufacturing Operations I		4	ENGT 1103, Pre/Coreq: MATH 2103
	ENGT	3674	Human Factors and Ergonomics		4	ENGT 2323
	ENGT	4774	Manufacturing Operations II		4	ENGT 3574
	ENGT	3543	Advanced Programmable Logic Controllers		3	ENGT 2333

**Total to Graduate 121****ADDITIONAL GRADUATION REQUIREMENTS:**

- 2.0 Graduation/Retention GPA
- 30 credit hours earned in residence at OSU-OKC
- 60 credit hours from baccalaureate degree granting institution
- 40 credit hours of upper division
- Grade of "C" or better required in all PSM courses

**NOTES LEGEND:**

FA= Fall, SP=Spring, SU=Summer  
 [R] Reading Proficiency/Placement  
 [W] Writing Proficiency/Placement  
 [M] Math Proficiency/Placement

**INFORMATION TECHNOLOGIES B.T.****Bachelor of Technology****Cybersecurity Track****Degree Sheet**

2024-2025 Catalog

General Education Courses			40 Credit Hours	Credit Hours	Prerequisites
ENGL	1113	English Composition I		3	[R] [W]
ENGL	1213	English Composition II		3	ENGL 1113
Select One:	HIST	1483 U.S. History to 1865		3	[R] [W]
	HIST	1493 U.S. History since 1865			
POLS	1113	American Government		3	[R] [W]
POLS	3223	Problems in Public Policy		3	POLS 1113 or Dept Head Approval
PSYC	1113	Introductory Psychology		3	[R] [W]
Select One:	SOC	1113 Introductory Sociology		3	[R] [W]
	SOC	3623 Cultural Diversity			Junior Standing
Select One:	SPCH	1113 Introduction to Speech Communication		3	[R] [W]
	SPCH	2723 Interpersonal Communication			
Select any 3 credit hours of college-level Math course					
MATH	1483	Mathematical Functions and Their Uses		3	[M]
Select any 6 credit hours designated as humanities (H), one lower level, and one upper level					
				3	Varies
				3	Varies
Select any 7 credit hours of science, one with a lab					
				4	Varies
				3	Varies

**Completed Associates Degree 30 Credit Hours**

	Information Technologies A.S. or A.A.S. degree with 30 technical hours	30	Varies
--	--	----	--------

**Cybersecurity Track 12 Credit Hours**

ITD	1543	Introduction to Computer Forensics	3	[R]
ITD	1613	Cloud Computing	3	[R]
ITD	2213	Server OS	3	ITD 1533
ITD	2433	Linux	3	None

Selective Admission into the following courses is required based on completion of an Associate in Applied Science degree or higher.

**Required Upper Division Courses 40 Credit Hours**

CIS	3001	Employment Orientation	1	Department Head Approval
CIS	3113	Information Project Management	3	None
CIS	3463	Server Administration	3	CIS 2363
ITD	3143	Digital Investigations and Reporting	3	ITD 1543
ITD	3163	Cyber Ethics and Law	3	None
ITD	3173	Advanced Computer Forensics	3	ITD 3143
ITD	3513	Cloud Computing Architecture	3	ITD 1613
ITD	4133	Secure Network	3	ITD 1533
ITD	4223	Cryptography	3	MATH 1483
ITD	4743	Cloud Security	3	ITD 4133
		Approved Technical Elective (3000 or 4000 level)	3	Varies
CIS	4900	Internship	9	Department Head Approval

**Total to Graduate****122****ADDITIONAL GRADUATION REQUIREMENTS:**

- 2.0 Graduation/Retention GPA
- 30 credit hours earned in residence at OSU-OKC
- 60 credit hours from baccalaureate degree granting institution
- 40 credit hours of upper division coursework
- Grade of "C" or better required in all upper division technical coursework
- Students must complete the prerequisite course with a grade of 'C' or better to advance to the next course in the required sequence

**NOTES LEGEND:**

FA= Fall, SP=Spring, SU=Summer  
 [R] Reading Proficiency/Placement  
 [W] Writing Proficiency/Placement  
 [M] Math Proficiency/Placement

**INFORMATION TECHNOLOGIES B.T.****Bachelor of Technology  
Software Development Track  
Degree Sheet**

2024-2025 Catalog

General Education Courses				40 Credit Hours	Credit Hours	Prerequisites
	ENGL	1113	English Composition I		3	[R] [W]
	ENGL	1213	English Composition II		3	ENGL 1113
	Select One:	HIST	1483 U.S. History to 1865		3	[R] [W]
		HIST	1493 U.S. History since 1865			
	POLS	1113	American Government		3	[R] [W]
	POLS	3223	Problems in Public Policy		3	POLS 1113 or Dept Head Approval
	PSYC	1113	Introductory Psychology		3	[R] [W]
	Select One:	SOC	1113 Introductory Sociology		3	[R] [W]
		SOC	3623 Cultural Diversity			Junior Standing
	Select One:	SPCH	1113 Introduction to Speech Communication		3	[R] [W]
		SPCH	2723 Interpersonal Communication			
Select any 3 credit hours of college-level Math course						
	MATH	1483	Mathematical Functions and Their Uses		3	[M]
Select any 6 credit hours designated as humanities (H), one low level, and one upper level						
					3	Varies
					3	Varies
Select any 7 credit hours of science, one with a lab						
					4	Varies
					3	Varies
Completed Associates Degree				30 Credit Hours		
Information Technologies A.S. or A.A.S. degree with 30 technical hours					30	Varies
Software Development Track				12 Credit Hours		
	CIS	2013	C++ Language Programming		3	CIS 1123
	CIS	2023	C# (Sharp) Programming		3	CIS 1123
	CIS	2323	Java		3	CIS 1123
	CIS	2703	Systems Analysis and Design		3	CIS 2013 or CIS 2023 or CIS 2323
Selective Admission into the following courses is required based on completion of an Associate in Applied Science degree or higher.						
Required Upper Division Courses				40 Credit Hours		
	CIS	3001	Employment Orientation		1	Department Head Approval
	CIS	3023	Web Programming		3	CIS 2013 or CIS 2023 or CIS 2323
	CIS	3113	Information Project Management		3	None
	CIS	3463	Server Administration		3	CIS 2363
	CIS	3663	Software Development .NET		3	CIS 2023
	CIS	3713	Systems Implementation		3	CIS 2703
	CIS	4213	Computer Architecture		3	CIS 3663
	CIS	4323	Data Structures		3	CIS 2323
	CIS	4333	Mobile Programming		3	CIS 3023
	CIS	4453	Software Engineering		3	CIS 3663
			Approved Technical Elective (3000 or 4000 level)		3	Varies
	CIS	4900	Internship		9	Department Head Approval

**Total to Graduate****122****ADDITIONAL GRADUATION REQUIREMENTS:**

- 2.0 Graduation/Retention GPA
- 30 credit hours earned in residence at OSU-OKC
- 60 credit hours from baccalaureate degree granting institution
- 40 credit hours of upper division coursework
- Grade of "C" or better required in all upper division technical coursework
- Students must complete the prerequisite course with a grade of 'C' or better to advance to the next course in the required sequence

**NOTES LEGEND:**

FA= Fall, SP=Spring, SU=Summer  
[R] Reading Proficiency/Placement  
[W] Writing Proficiency/Placement  
[M] Math Proficiency/Placement

**PUBLIC SAFETY MANAGEMENT B.T.****Bachelor of Technology****Degree Sheet**

2024-2025 Catalog

General Education Courses				40 Credit Hours	Credit Hours	Prerequisites
	ENGL	1113	English Composition I		3	[R] [W]
	ENGL	1213	English Composition II		3	ENGL 1113
	Select One:	HIST	1483 U.S. History to 1865		3	[R] [W]
		HIST	1493 U.S. History since 1865			
	POLS	1113	American Government		3	[R] [W]
	POLS	3223	Problems in Public Policy		3	POLS 1113
	PSYC	1113	Introductory Psychology		3	[R] [W]
	Select One:	SOC	1113 Introductory Sociology		3	[R] [W]
		SOC	3623 Cultural Diversity			SOC 1113 or Junior Standing
	Select One:	SPCH	1113 Introduction to Speech Communication		3	[R] [W]
		SPCH	2723 Interpersonal Communication			
Select any 3 credit hours of college-level Math course						
					3	Varies
Select any 6 credit hours designated as humanities (H), one lower level, and one upper level						
					3	Varies
					3	Varies
Select any 7 credit hours of science, one with a lab						
					4	Varies
					3	Varies
Required Electives				6 Credit Hours		
Select any 3 credit hours of college-level computer science						
					3	Varies
	PSER	3333	Public Sector Budgeting and Resource Management		3	[R] [W]
Completed Associates Degree				27 Credit Hours		
	Public Safety A.S. or A.A.S. with at least 27 technical hours				27	Varies
Specialization Tracks				14 Credit Hours		
Select 14 hours of specialty coursework in public safety area per department head advisement						
					3	Varies
					3	Varies
					3	Varies
					3	Varies
					2	Varies
Selective Admission into the following courses is required, based on certain criteria. For admission requirements, visit <a href="https://osuokc.edu/psm">osuokc.edu/psm</a>						
Required Upper Division Courses				33 Credit Hours		
	PSM	3013	Multi-agency Response to Emergency/Critical Incidents		3	None FA only
	PSM	3023	Tactical Emergency Management		3	None FA only
	PSM	3033	Strategic Planning and Analysis in Public Safety Agencies		3	None SP only
	PSM	3043	Community Relations in Public Safety		3	None SP only
	PSM	4113	Technical Dissemination of Emergency Public Information		3	None FA only
	PSM	4123	Ethical Practices in Public Safety		3	None FA only
	PSM	4133	Legal Issues Facing Public Safety Agencies		3	None SP only
	PSM	4143	Personnel Oversight Strategies		3	None SP only
	PSM	4153	Technical Research & Design in Public Safety		3	None FA only
	PSM	4513	Advanced Occupational Proficiency in Public Safety		3	All Required Upper Division Courses FA or SP
	PSM	4523	Practicum		3	All Required Upper Division Courses FA or SP

**Total to Graduate****120****ADDITIONAL GRADUATION REQUIREMENTS:**

- 2.0 Graduation/Retention GPA
- 30 credit hours earned in residence at OSU-OKC
- 60 credit hours from baccalaureate degree granting institution
- 40 credit hours of upper division
- Grade of "C" or better required in all PSM courses
- Students must complete the prerequisite course with a grade of 'C' or better to advance to next course in the required sequence

**NOTES LEGEND:**

FA= Fall, SP=Spring, SU=Summer  
 [R] Reading Proficiency/Placement  
 [W] Writing Proficiency/Placement  
 [M] Math Proficiency/Placement