

## Industrial Technology, B.S. (120 Units)

Valid for Catalog Years: 2018/2019 to 2019/2020

\*Official planning guide approved by the Jordan College of Agricultural Sciences & Technology

For assistance or to schedule an  
 advising appointment, please contact  
 the **Department of Industrial  
 Technology** at 559-278-2145,  
 Industrial Technology 212  
**Jordan College Advising & Career  
 Development Center:**  
 559-278-4019, Agricultural Sciences  
 110

	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	13-15	15-16	16-17	16-17	15	16-17	18-19	15
Milestones	MATH 75 or DS 71 and IT 52		PHYS 2A IT 74		IT 115 IT 198W		IT 199 or IT 194	
General Education	A2 (3 Units) Written Communication *Must pass with a C or better	A1 (3 Units) Oral Communication *Must pass with a C or better	B2/B3 (3-4 Units) Life Sciences	C1/C2 (3-4 Units) Arts or Humanities	IB (3 Units) Physical Universe & Its Life Forms	IC (3-4 Units) Arts & Humanities	ID (3-4 Units) Social, Political, & Economic Institutions	
	A3 (3 units) Critical Thinking *Must pass with a C or better	C2 (3-4 Units) Humanities	D2 (3 Units) American Government	E1 (3 Units) Lifelong Understanding & Self Development				
	C1 (3-4 Units) Arts	D1 (3 Units) American History						

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Units	Freshman		Sophomore		Junior		Senior	
	Fall 13-15	Spring 15-16	Fall 16-17	Spring 16-17	Fall 15	Spring 16-17	Fall 18-19	Spring 15
Major	<b>GE Area B4 MATH 75 or DS 71 (3-4 Units)</b> Quantitative Reasoning *See course catalog for prerequisite requirements	<b>GE Area D3 IT 20 (3 Units)</b> Social Science	<b>GE Area B1/B3 PHYS 2A (4 Units)</b> Physical Sciences [Pre-Req: DS 71, MATH 75, or MATH 70; or department permission]	<b>DS 73 (3 Units)</b> [Pre-Req: LM; DS 71 or equivalent; ECON 40 & 50 recommended] <b>OR</b> <b>MATH 11 (3 Units)</b> [Pre-Req: ELM]	<b>IT 133 (3 Units) OR IT 156 (3 Units)</b>	<b>IT 117 (3 Units)</b> [Pre-Req: DS 73 or MATH 11]	<b>IT 106 (3 Units)</b>	<b>IT 104 (3 Units)</b> [Pre-Req: IT 114, 115]
	<b>IT 30 (1 Unit)</b>	<b>IT 52 (3 Units)</b>	<b>IT 74 (3 Units)</b>	<b>IT 92 (3 Units)</b>	<b>IT 198W (3 Units)</b>	<b>IT 148 (3 Units)</b>	<b>IT Elective (3 Units)</b> *See footnotes	<b>IT 137 (3 Units)</b> [Pre-Req: IT 117] <b>OR</b> <b>IT 184 (3 Units)</b> [Pre-Req: IT 117 & IT 74]
			<b>IT Elective (3 Units)</b> *See footnotes	<b>CHEM 3A (4 Units)</b> [Pre-Req: GE B4 (may be taken concurrently)] *No credit if taken after CHEM 1A	<b>IT 115 (3 Units)</b>	<b>IT 114 (3 Units)</b>	<b>IT Elective (3 Units)</b> *See footnotes	<b>IT 196 (1 Unit)</b> [Pre-Req: Senior standing]
					<b>IT 118 (3 Units)</b>		<b>IT 199 (3 Units)</b> [Pre-Req: UDWE or IT 198W]	<b>IT Elective (3 Units)</b> *See footnotes

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	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>Units</b>	<b>13-15</b>	<b>15-16</b>	<b>16-17</b>	<b>16-17</b>	<b>15</b>	<b>16-17</b>	<b>18-19</b>	<b>15</b>
<b>Major</b>							<b>IT Elective (3 Units)</b> *See footnotes	<b>IT Elective (2 Units)</b> *See footnotes
<b>Additional Graduation Requirements</b>								<b>MI (3 Units)</b> Multicultural/ International

**FOOTNOTES:**

**Prerequisites/Corequisites:** Other restrictions may apply. Please see your course catalog for detailed prerequisite/corequisite requirements.

**Grade Requirements:** All courses (except IT 194) required for the major must receive a letter grade.

**Electives:** Students must earn a minimum of 120 units total to graduate. The number of required elective units may vary, depending on the amount of units earned from major and GE courses.

**IT Electives (17 units):** Electives should be chosen from the following list with advisor's approval: IT 12, 41, 58, 63, 71, 80, 110, 112, 116, 120, 127, 129, 131, 133, 134, 146, 147, 156, 164, 165, 190, 191T, or 194.

**Upper Division Writing Skills requirement (UDWS):** All undergraduate students must demonstrate competency in writing skills: IT 198W (C or better) is required for Industrial Technology majors

**Substitutions:** If substitutions/exceptions/waivers are made for any major courses that also meet GE and/or the Multicultural/International graduation requirement, the student is responsible for completing additional courses to satisfy the respective areas (GE and/or MI). This also includes the upperdivision writing requirement.

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	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
	13-15	15-16	16-17	16-17	15	16-17	18-19	15
<b>General Education</b>	<b>A2 (3 Units)</b> Written Communication *Must pass with a C or better	<b>A1 (3 Units)</b> Oral Communication *Must pass with a C or better	<b>B2/B3 (3-4 Units)</b> Life Sciences	<b>C1/C2 (3-4 Units)</b> Arts or Humanities	<b>IB (3 Units)</b> Physical Universe & Its Life Forms	<b>IC (3-4 Units)</b> Arts & Humanities	<b>ID (3-4 Units)</b> Social, Political, & Economic Institutions	<b>MI (3 Units)</b> Multicultural/International
	<b>A3 (3 units)</b> Critical Thinking *Must pass with a C or better	<b>C2 (3-4 Units)</b> Humanities	<b>D2 (3 Units)</b> American Government	<b>E1 (3 Units)</b> Lifelong Understanding & Self Development				
	<b>C1 (3-4 Units)</b> Arts	<b>D1 (3 Units)</b> American History						

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	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	13-15	15-16	16-17	16-17	15	16-17	18-19	15
<b>Major</b>	<b>GE Area B4 MATH 75 or DS 71 (3-4 Units)</b> Quantitative Reasoning *See course catalog for prerequisite requirements	<b>GE Area D3 IT 20 (3 Units)</b> Social Science	<b>GE Area B1/B3 PHYS 2A (4 Units)</b> Physical Sciences [Pre-Req: DS 71, MATH 75, or MATH 70; or department permission]	<b>DS 73 (3 Units)</b> [Pre-Req: LM; DS 71 or equivalent; ECON 40 & 50 recommended] OR <b>MATH 11 (3 Units)</b> [Pre-Req: ELM]	<b>IT 133 (3 Units) OR IT 156 (3 Units)</b>	<b>IT 117 (3 Units)</b> [Pre-Req: DS 73 or MATH 11]	<b>IT 106 (3 Units)</b>	<b>IT 104 (3 Units)</b> [Pre-Req: IT 114, 115]
	<b>IT 30 (1 Unit)</b>	<b>IT 52 (3 Units)</b>	<b>IT 74 (3 Units)</b>	<b>IT 92 (3 Units)</b>	<b>IT 198W (3 Units)</b>	<b>IT 148 (3 Units)</b>	<b>IT Elective (3 Units)</b> *See footnotes	<b>IT 137 (3 Units)</b> [Pre-Req: IT 117] OR <b>IT 184 (3 Units)</b> [Pre-Req: IT 117 & IT 74]
			<b>IT Elective (3 Units)</b> *See footnotes	<b>CHEM 3A (4 Units)</b> [Pre-Req: GE B4 (may be taken concurrently)] *No credit if taken after CHEM 1A	<b>IT 115 (3 Units)</b>	<b>IT 114 (3 Units)</b>	<b>IT Elective (3 Units)</b> *See footnotes	<b>IT 196 (1 Unit)</b> [Pre-Req: Senior standing]
					<b>IT 118 (3 Units)</b>		<b>IT 199 (3 Units)</b> [Pre-Req: UDWE or IT 198W]	<b>IT Elective (3 Units)</b> *See footnotes
							<b>IT Elective (3 Units)</b> *See footnotes	<b>IT Elective (2 Units)</b> *See footnotes
<b>Electives</b>								

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	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>Units</b>	<b>13-15</b>	<b>15-16</b>	<b>16-17</b>	<b>16-17</b>	<b>15</b>	<b>16-17</b>	<b>18-19</b>	<b>15</b>

**FOOTNOTES:**

**Prerequisites/Corequisites:** Other restrictions may apply. Please see your course catalog for detailed prerequisite/corequisite requirements.

**Grade Requirements:** All courses (except IT 194) required for the major must receive a letter grade.

**Electives:** Students must earn a minimum of 120 units total to graduate. The number of required elective units may vary, depending on the amount of units earned from major and GE courses.

**IT Electives (17 units):** Electives should be chosen from the following list with advisor's approval: IT 12, 41, 58, 63, 71, 80, 110, 112, 116, 120, 127, 129, 131, 133, 134, 146, 147, 156, 164, 165, 190, 191T, or 194.

**Upper Division Writing Skills requirement (UDWS):** All undergraduate students must demonstrate competency in writing skills: IT 198W (C or better) is required for Industrial Technology majors

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	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
	15-17	15-16	13-17	15-16	15	19-20	18-19	13
<b>General Education</b>	<b>A2 (3 Units)</b> Written Communication *Must pass with a C or better	<b>A1 (3 Units)</b> Oral Communication *Must pass with a C or better	<b>B2 (3-4 Units)</b> Life Sciences	<b>C1/C2 (3-4 Units)</b> Arts or Humanities	<b>IB (3 Units)</b> Physical Universe & Its Life Forms	<b>IC (3-4 Units)</b> Arts & Humanities	<b>ID (3-4 Units)</b> Social, Political, & Economic Institutions	<b>MI (3 Units)</b> Multicultural/International
	<b>A3 (3 units)</b> Critical Thinking *Must pass with a C or better	<b>C2 (3-4 Units)</b> Humanities	<b>B3 (0-3 Units)</b> Lab	<b>E1 (3 Units)</b> Lifelong Understanding & Self Development				
	<b>C1 (3-4 Units)</b> Arts	<b>D1 (3 Units)</b> American History	<b>D2 (3 Units)</b> American Government					

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	Fall 15-17	Spring 15-16	Fall 13-17	Spring 15-16	Fall 15	Spring 19-20	Fall 18-19	Spring 13
<b>Major</b>	<b>GE Area B4 MATH 75 or DS 71 (3-4 Units)</b> Quantitative Reasoning *See course catalog for prerequisite requirements	<b>GE Area D3 IT 20 (3 Units)</b> Social Science	<b>GE Area B1 PHYS 2A (4 Units)</b> Physical Sciences [Pre-Req: DS 71, MATH 75, or MATH 70; or department permission]	<b>DS 73 (3 Units)</b> [Pre-Req: LM; DS 71 or equivalent; ECON 40 & 50 recommended] OR <b>MATH 11 (3 Units)</b> [Pre-Req: ELM]	<b>IT 102 (3 Units)</b>	<b>CHEM 3A (4 Units)</b> [Pre-Req: GE B4 (may be taken concurrently)] *No credit if taken after CHEM 1A	<b>IT 106 (3 Units)</b>	<b>IT 104 (3 Units)</b> [Pre-Req: IT 114, 115]
	<b>IT 52 (3 Units)</b>	<b>IT 74 (3 Units)</b>	<b>IT Elective (3 Units)</b> *See footnotes	<b>IT 92 (3 Units)</b>	<b>IT 107 (3 Units)</b>	<b>IT 117 (3 Units)</b> [Pre-Req: DS 73 or MATH 11]	<b>IT 118 (3 Units)</b>	<b>IT 137 (3 Units)</b> [Pre-Req: IT 117]
				<b>IT 114 (3 Units)</b>	<b>IT 115 (3 Units)</b>	<b>IT 148 (3 Units)</b>	<b>IT 184 (3 Units)</b>	<b>IT 196 (1 Unit)</b> [Pre-Req: Senior standing]
						<b>IT Elective (3 Units)</b> *See footnotes	<b>IT 199 (3 Units)</b> [Pre-Req: UDWE or IT 198W]	<b>IT Elective (3 Units)</b> *See footnotes
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	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>Units</b>	<b>15-17</b>	<b>15-16</b>	<b>13-17</b>	<b>15-16</b>	<b>15</b>	<b>19-20</b>	<b>18-19</b>	<b>13</b>
<b>Electives</b>					<b>UDWS (0-4 Units)</b> *Upper Division Writing Exam OR "W" Course (must pass with a C or better)			

**FOOTNOTES:**

**Prerequisites/Corequisites:** Other restrictions may apply. Please see your course catalog for detailed prerequisite/corequisite requirements.

**Grade Requirements:** All courses (except IT 194) required for the major must receive a letter grade.

**Electives:** Students must earn a minimum of 120 units total to graduate. The number of required elective units may vary, depending on the amount of units earned from major and GE courses.

**IT Electives (15 units):** Electives should be chosen from the following list with advisor's approval: IT 12, 30, 41, 58, 63, 71, 80, 110, 112, 116, 120, 127, 129, 131, 133, 134, 146, 147, 164, 165, 190, 191T, or 194.

**Upper Division Writing Skills requirement (UDWS):** All undergraduate students must demonstrate competency in writing skills by passing the Upper Division Writing Exam (UDWE) or by obtaining a C or better in an approved upper division writing course, identified by the letter "W." IT 198W is recommended for Industrial Technology majors.