

Industrial Technology

| ATMAE Requirements | School/Program Degree Requirements Course prefix, number, and title | Semester Hours |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------|
| Program/Option | General Education: Intellectual Foundations (IF) | |
| General Education (Humanities, English, History, Sociology, Psychology, Speech, etc.) 18-36 Semester Hours | Basic Written/Oral Communications | 6 |
| | Mathematics/Quantitative Reasoning (see below) | 0 |
| | Cognate Foundations | 12 |
| | Foundations of Civilizations | 9 |
| | Diversity | 3 |
| | Global Engagement (Foreign Language) | 0-6 |
| | Intellectual Skills and Competencies (infused) | 0 |
| | Total | 30-36 |
| Mathematics 6-18 Semester Hours | Math 110 Intermediate Algebra | 3 |
| | Math 124 Advanced Algebra & Trigonometry | 3 |
| | (This covers 3 hours of math required in IF) | |
| | Total | 6 |
| Physical Sciences (Life Sciences may be appropriate for selected programs of study) 6-18 Semester Hours | CHE-101 General Chemistry | 3 |
| | PHY-107 General Physics | 3 |
| | Total | 6 |
| Management/ Technical/ Specialization 42-60 Semester Hours | TEC-312 Materials Management | 3 |
| | TEC-313 Statistical Quality Control | 3 |
| | BUS-320 Marketing | 3 |
| | TEC-403 Systems Analysis | 3 |
| | TEC-404W Industrial Systems Applications | 3 |
| | TEC-465 Safety Management | 3 |
| | TEC-101 Technical Drawing | 3 |
| | TEC-201 Materials Processing | 3 |
| | TEC-302 CAD/CAM | 3 |
| | TEC-311 Materials Science & Testing | 3 |
| | TEC-314 Electromechanics | 3 |
| | TEC-351 Energy Systems | 3 |
| | TEC-402 Ergonomics | 3 |
| | TEC-405W Manufacturing Technology | 3 |
| | Total | 42 |

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|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------|
| General Electives 0-18 Semester Hours | 1. Students are advised to seek relevant coursework to support their professional interest areas (minors are encouraged). | |
| | 2. Transfer students often use this category to capture work completed elsewhere. | |
| | Total | 30-36 |
| ATMAE Minimum Total 120 Semester Hours | Degree Total | 120 |