INDUSTRIAL ENGINEERING

COLLEGE: ENGINEERING  
SCHOOL: NONE  
DEGREE: BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING  
OPTION/TRACK: NONE  

LIMITED ACCESS PROGRAM: YES-THIS PROGRAM HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS STATED BELOW.

CAMPUS(ES) WHERE OFFERED/CONTACT:  
TAMPA / Coordinator of Advising, Engineering, (813) 974-2684  
LAKELAND (Partial) / Advisor, Engineering, (941) 667-7011  
SARASOTA (Partial) / Advisor, Engineering, (813) 359-4331  

Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF  
(State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

- **Math**
  - USF C/C  
  - MAC 2281 MAC 2311 Engineering Calculus I (3)  
  - MAC 2282 MAC 2312 Engineering Calculus II (3)  
  - MAC 2283 MAC 2313 Engineering Calculus III (3)  
  - MAP 2302 MAP 2302 Differential Equations (3)

- **Chemistry**
  - USF C/C  
  - CHM 2041 CHM 1045 General Chemistry I (3)  
  - CHM 2045L CHM 1045L General Chemistry I Laboratory (1)  
  - CHM 2046 CHM 1046 General Chemistry II (3)

- **Physics**
  - USF C/C  
  - PHY 2048 PHY 2048 General Physics (3)  
  - PHY 2048L PHY 2048L General Physics Laboratory (1)  
  - PHY 2049 PHY 2049 General Physics (3)  
  - PHY 2049L PHY 2049L General Physics Laboratory (1)

- **Graphics**
  - USF C/C  
  - EGS 1113 EGS 1111 Introduction to Design Graphics (3)

Admission Requirements to the University Program of Study

This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

Procedures for Applying to the College of Engineering

Students should complete and submit an Engineering Admissions Application to the College of Engineering Advising Office. Freshmen and Sophomores must submit copies of high school transcripts, SAT and ACT test scores to the College of Engineering, Advising Office. This is in addition to transcripts sent to the University’s Admissions Office. Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL scores must be 550. Credentials must be received in the Engineering Advising Office 30 days prior to the date of applicable term. Failure to comply will result in the application being denied by the College of Engineering. Credentials will be held for one year. If application is not updated within that year, credentials must be re-submitted.

Engineering Admissions Requirements

Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

- **Bachelor’s Curriculum Industrial and Management Systems Engineering**
  - CHM 2041 General Chemistry I (3)  
  - CHM 2045L General Chemistry I Lab (1)  
  - CHM 2046 General Chemistry II (3)  
  - EGN 2210 Computer Tools for Engineers (3)  
  - EGN 3311 Statics (3)  
  - EGN 3321 Dynamics (3)  
  - EGN 3333 Thermodynamics I (3)  
  - EGN 3365L Materials Engineering I (3)  
  - EGN 3373 Intro. to Electrical Systems I (3)  
  - EGN 3375 Intro. to Electrical Systems III (3)  
  - EGN 3443 Engineering Statistics I (3)  
  - EGN 4450 Intro. to Linear Systems (2)  
  - EGN 4930 Engineering Orientation (3)  
  - EGS 1113 Intro. to Design Graphics (3)  
  - EIN 4312L Work Analysis (3)  
  - EIN 4313L Human Factors (3)  
  - EIN 4333 Production Control (3)  
  - EIN 4364L Facilities Design I (3)
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EIN 4365L</td>
<td>Facility Design II (MW/MI)</td>
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<tr>
<td>EIN 4411L</td>
<td>Manufacturing Processes</td>
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<td>EIN 4933</td>
<td>Managerial Cost Accounting</td>
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<td>EIN 4601</td>
<td>Automation and Robotics</td>
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<td>ENC 1101</td>
<td>Freshman English I</td>
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<td>ENC 1102</td>
<td>Freshman English II</td>
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<td>ENC 4931</td>
<td>Engineering Communications</td>
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<td>ENG 3613</td>
<td>Engineering Economy</td>
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<td>ESI 4221</td>
<td>Industrial Statistics &amp; Quality Control</td>
<td>(3)</td>
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<tr>
<td>ESI 4224</td>
<td>Design of Experiments</td>
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<td>Deterministic O.R.</td>
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<td>ESI 4313</td>
<td>Probabilistic O.R.</td>
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<td>ESI 4911</td>
<td>Senior Project</td>
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<td>ESI 5423</td>
<td>Industrial Systems Simulation</td>
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<td>MAC 2281</td>
<td>Engineering Calculus I</td>
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<td>PHY 2048</td>
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<td>PHY 2049L</td>
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Technical Elective
*Science Elective

*ALAMEA Perspective Elective
*Fine Arts Elective
*Historical Perspectives Electives
*Social Science Electives
*MW/MI (Non-Engineering)

*Approved General Education Requirements