

**Flowchart**

**USF BS in Industrial Engineering (B.S.I.E.)**

**2024-25 Catalog, 120 hours**

Lower Division Status				Upper Division Status				
Year 1		Year 2		Summers	Year 3		Year 4	
Fall 14 hrs	Spring 17 hrs	Fall 13 hrs	Spring 15 hrs	10 hrs	Fall 15 hrs	Spring 12 hrs	Fall 12 hrs	Spring 12 hrs

CHS 2440  
Chemistry for  
Engineers or  
CHM 2045  
3 hrs F, S, Su

CHS 2440L  
Chemistry for  
Engineers Lab  
or CHM 2045L  
1 hr F, S, Su

MAC 2281 or  
MAC 2311  
Calculus I  
4 hrs F, S, Su

EGN 3000L  
Foundations of  
Eng Lab  
(Creative  
Thinking)  
3 hrs F, S

EGN 3000  
Foundations of  
Engineering  
*Required F, S*

PHY 2048L  
General  
Physics I Lab  
1 hr F, S, Su

PHY 2048  
General  
Physics I  
3 hrs F, S, Su

MAC 2282 or  
MAC 2312  
Calculus II  
4 hrs F, S, Su

St. GenEd Core  
Social Science  
Elective  
3 hrs F, S, Su

St. GenEd Core  
Humanities  
Elective  
3 hrs F, S, Su

PHY 2049L  
General  
Physics II Lab  
1 hr F, S, Su

PHY 2049  
General  
Physics II  
3 hrs F, S, Su

MAC 2283 or  
MAC 2313  
Calculus III  
4 hrs F, S, Su

EGN 3373  
Electrical  
Systems I  
3 hrs F, S, Su

ENC 1102  
Composition II  
3 hrs F, S, Su


EGN 1113  
Intro to Design  
Graphics  
3 hrs F, S, Su

ENC 3246  
Communication  
for Engineers  
3 hrs F, S, Su

EGN 3433  
Mod Analysis  
Eng Sys OR  
MAP 2302  
Diff Equations  
3 hrs F, S, Su

EGN 3615  
Eng Economics  
(Human & Cult  
Diversity)  
3 hrs F, S, Su

ENC 1101  
Composition I  
3 hrs F, S, Su

<p>F = Fall S = Spring Su = Summer (<b>tentative</b>)</p> <p>→ Pre-requisite - - - -&gt; Pre/Co-requisite - - - - Co</p>	<p>A cumulative GPA of 3.0 is required in bold-bordered courses to be eligible for Progression to Upper Division, min grade C in ea., best attempt. Req. 2.5 USF &amp; Overall GPA.</p> <p></p>
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