

These are the courses that are approved by USF to apply for the double degree of Bachelor of Science in Mechanical Engineering (BSME) at USF

1

\* MAT 1101 Calculus I  
IME 0010 Intro to  
Mechanical Engineering  
IBA 0022 Engineering  
Drawing

2

\* MAT 1111 Calculus II  
IST 2088 Algorithms and  
Programming  
\* FIS 1023 Physics  
Mechanics

3

\* MAT 1121 Calculus III  
\* IBA 4032 Statics  
IME 1205 Material Science  
MAT 4011 Differential  
Equations

4

\* FIS 1033 Physics-  
Electricity  
\* IBA 4061 Dynamics  
\* IBA 4200 Solid  
Mechanics  
\* IME 7061  
Thermodynamics I

5

IME 1210 Mechanics of  
Machines  
IME 4030 Manufacturing  
processes  
IME 4072 Fluid Mechanics  
IME 7070 Thermodynamics  
II  
IST 4360 Computational  
Solutions of Eng.

6

EST 7042 Data Analysis in  
Engineering  
IME 7101 Heat transfer  
IME 7220 Mechanical  
design

7

IME 7095 Dynamic  
Systems Modeling  
EL 4145 Electronic  
Systems

8

IME 8310 Instrumentation &  
control  
\* CSV 0020 General  
Chemistry  
EIL 4020 Intro to Philosophy  
Innovation elective ELG  
8400: IDS 0010, IDS0020  
or IDS 0070

Semesters  
9 and 10  
at USF  
(33 credits)

**Mechanical**

\* Courses with specific  
grades requirement

# Mechanical

\* To guarantee progression to upper Division admission, students will need to complete the following courses with a minimum grade of C and a cumulative 3.0 GPA (USF):

Uninorte Courses
MAT 1101 Calculus I
MAT 1111 Calculus II
MAT 1121 Calculus III
CVS 0020 General Chemistry (with Lab)
FIS 1023 Physics I – Mechanics (with Lab)
FIS 1033 Physics II (with Lab)

In addition, students need to comply with the following requirements:

Uninorte Courses	USF grade requirement
IBA 4032 Statics	The grade of each course must be equal to a “C+” or higher
IBA 4061 Dynamics	

The following table shows how Uninorte grades are transferred to USF grading Scale:

Uninorte grade		USF grade
4.6-5.0	Excellent	A
4.1-4.5	Very Good	B+
3.6-4.0	Good	B
3.3-3.5	Acceptable	C+
3.0-3.2	Approved	C
0-2.99	Poor/Bad	F

In order to check that the above requirements are met, the College of Engineering at USF calculates the GPA by dividing the total number of quality points by the total number of course credit hours. (USF internal process).

Admission requirements are subject to revision and subject to change, please check the Department website and the most recent version of the [catalog](#)

# Important information

- Students meet the Civic Literacy requirement with credit for AMH 2010, AMH 2020, or POS 2041 and pass the Florida Civic Literacy Exam. For more information on this State of Florida requirement, see here: <https://www.usf.edu/undergrad/students/civics-literacy.aspx>
- Credit for the civic literacy course or ENC1101 and 1102 may also be earned through the College Level Examination Program. <https://clep.collegeboard.org/>
- USF continuation and graduation requirements: All math, science, and engineering courses must be successfully completed in no more than two registered attempts.
- The following table shows how Uninorte grades are transferred to USF Grading Scale:

Uninorte grade	USF grade
4.6-5.0	A
4.1-4.5	B+
3.6-4.0	B
3.3-3.5	C+
3.0-3.2	C
0-2.99	F