



Changes to Engineering curricula

Fall 2026 onward



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SF STATE

4 New Engineering curricula begins in Fall 2026

- **Minor Changes:**

- BS Electrical Engineering (123 units total)
- BS Computer Engineering (123 units total)

- **Some Changes:**

BS Civil Engineering (123 units total)

- **Major Changes:**

BS Mechanical Engineering (125 units total)

Total Units remains the **SAME (123 or 125 units)**

- 93 or 95 units in Major (unchanged)
- 30 units in GE (unchanged)



What are the **changes**?

TWO Major changes in new curricula:

1. Changes in **COURSES**
2. Changes in **PREREQUISITES** ← **pay attention**



Questions for you:

- How does the change **impact** you?
 - **Course Changes**
 - **Prerequisite Changes**
- Do you need to **switch** to the new BS curriculum?
 - A good RULE of THUMB:
 - **Civil & ME:** Switch if you have not taken Engr 300 before Fall 2026
 - **EE:** Switch if you have not taken Phys 240 & Engr 281
 - **CompE:** Switch if you have not taken Math 228 & Engr 281
- If you plan to switch to the new curriculum, contact your **program head**

1. Course Changes

BS Electrical Engineering



Comparing Current vs. **New BSEE** Curriculum

Current BSEE (123 units)

Lower Division Math & Sciences (30)

Lower Division ENGR (19)

Upper Division ENGR (38)

Upper Division ENGR Electives (6)

GE (30)

Decrease



New BSEE (123 units)

Lower Division Math & Sciences (26)

Lower Division ENGR (20)

Upper Division ENGR (38)

Upper Division ENGR Electives (9)

GE (30)

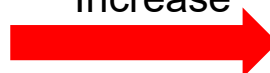
Increase



Same



Increase



Same



BS Electrical Engineering

- **Courses REMOVED:**
 - Phys 240 & Phys 242 (- 4 units)
 - Engr 281 (- 2 units) – this course will no longer be offered
- **Courses ADDED:**
 - Engr 282 (+ 3 units)
 - 3 more units of Upper Division Engr Electives (+ 3 units)
- **What do you need to do?**
 - If you have taken Phys 240/242 & Engr 281 – stay put
 - If you have not, you can stay put, or switch to new program
 - See EE Program Head to switch to new curriculum.
 - Dr. Xiaorong Zhang (xrzhang@sfsu.edu)
 - Take Engr 282 & 3 additional units of UD Engr Elective.

1. Course Changes

BS Computer Engineering



Comparing Current vs. **New BSCompE** Curriculum

Current BSCompE (123 units)

Lower Division Math & Sciences (26)

Lower Division ENGR (19)

Upper Division ENGR (42)

Upper Division ENGR Electives (6)

GE (30)

Decrease



Increase



Same



Same



Same



New BSCompE (123 units)

Lower Division Math & Sciences (22)

Lower Division ENGR (23)

Upper Division ENGR (42)

Upper Division ENGR Electives (6)

GE (30)

BS Computer Engineering

- **Courses REMOVED:**
 - Math 228 (- 4 units)
 - Engr 281 (- 2 units) – this course will no longer be offered
- **Courses ADDED:**
 - Engr 282 (+ 3 units)
 - CSC 230 (+ 3 units)
- **What do you need to do?**
 - If you have taken Math 228 & Engr 281 – stay put
 - If you have not, you can stay put, or switch to new program
 - See CompE Program Head to switch to new curriculum.
 - Dr. Xiaorong Zhang (xrzhang@sfsu.edu)
 - Take Engr 282 & CSC 230



1. Course Changes

BS Civil Engineering



Comparing **Current** vs. **New BS Civil** Curriculum

Current BSEE (123 units)

Lower Division Math & Sciences (30)

Lower Division ENGR (20)

Upper Division ENGR (31)

Upper Division ENGR Electives (12)

GE (30)

New BSEE (123 units)

Lower Division Math & Sciences (30)

Lower Division ENGR (19)

Upper Division ENGR (29)

Upper Division ENGR Electives (15)

GE (30)

Same

Decrease

Decrease

Increase

Same

BS Civil Engineering

- **Courses REMOVED:**
 - Engr 205 (- 3 units)
 - Engr 271 (- 1 unit) – no longer be offered after Fall 2026
- **Courses MODIFIED:**
 - Engr 300: from 3 unit to 1 unit Lab (- 2 units)
- **Courses ADDED:**
 - Engr 282 (+ 3 units)
 - 3 units of UD Engr Elective (+ 3 units)
- **What do you need to do?**
 - If you have taken Engr 300 – stay put
 - If you have not, switch to new program
 - Contact Program Head, Dr. Cheng Chen (chcsfsu@sfsu.edu)



1. Course Changes

BS Mechanical Engineering



Comparing **Current vs. New BSME Curriculum**

Current BSME (125 units)

Lower Division Math & Sciences (30)

Lower Division ENGR (18)

Upper Division ENGR (35)

Lower Division Modular Electives (3)

Upper Division ENGR Electives (9)

GE (30)

New BSME (125 units)

Lower Division Math & Sciences (30)

Lower Division ENGR (26)

Upper Division ENGR (27)

Upper Division Focus Area Elective (3)

Upper Division ENGR Electives (9)

GE (30)

Same

Increase

Decrease

Change To

Same

Same



BS Mechanical Engineering

- **Lower Division ENGR (required)**
 - **Removed:** Engr 101, 103, 27x/29x (- 5 units)
 - **Added:** Engr 104, 213, 214, 282 (+ 10 units)
- **Upper Division ENGR (required)**
 - **Removed:** Engr 364 and Engr 463 (- 6 units)
 - **Modified:** Engr 300 becomes a 1-unit Lab (- 2 units)
 - **Modified:** Engr 464 becomes Engr 363 (0 unit)
 - **Modified:** Engr 446+447 become required courses (0 unit)
- **Upper Division ENGR – Focus Area Elective**
 - **Added:** Engr 364, Engr 414, OR Engr 463 (+ 3 units)
- **What do you need to do?**
 - If you have taken Engr 300 – stay put
 - If you have not, switch to new program
 - Contact Program Head, Dr. Mojtaba Azadi (azadi@sfsu.edu)

BS Mechanical Engineering

- If you **have not taken Engr 300 by Fall 2026**, and **decide to switch**:
 - If you took **Engr 103** → counts toward **Engr 214** (1 unit)
 - If you took **Engr 101 + two Engr 27x/29x** → count toward **Engr 104** (3 units)
 - If you took **Engr 101 only**, with no Engr 27x/29x → **take Engr 104**
- **Any other scenarios, please consult with an ME Faculty Advisor**



2. Prerequisite Changes

Impacting All Majors



Prerequisite Changes impact all majors, but especially mechanical engineering

Overview of Prerequisite Changes

1. **New prerequisites** for certain courses
2. **C- or Better** grades required for **All Engr prerequisite courses**
3. **C or Better** grades required for **Math 226, Math 227 & Phys 220**

We will use **BSME prerequisites** as examples in the next few slides, as BSME has more changes than other engineering majors



New BSME: (2) Prerequisite Changes

a) New Prerequisites & C- or Better Grade required:

- **Engr 300**: ENGR 200, ENGR 282, and PHYS 230 all with grades of C- or better.
- **Engr 307**: ENGR 201, ENGR 205, and ENGR 213 or equivalents with grades of C- or better.
- **Engr 309**: ENGR 102 and ENGR 200 or equivalents with grades of C- or better.
- **Engr 363**: ENGR 309 or equivalent with a grade of C- or better.
- **Engr 463**: ENGR 302, ENGR 303, and ENGR 304 or equivalents with grades of C- or better.
- **Engr 410**: ENGR 447 (may be taken concurrently) or equivalent.
- **Engr 610**: ENGR 281 or ENGR 282 with a grade of C- or better; or permission of the instructor.



New BSME: (2) Prerequisite Changes

b) C- or Better Grade required:

- **Engr 200**: CHEM 115 or CHEM 180 or equivalent with C- or better
- **Engr 201**: ENGR 102 or equivalent with C- or better
- **Engr 205**: PHYS 230 with C- or Better; MATH 245 (may be taken concurrently)
- **Engr 302**: ENGR 300* and ENGR 309* with grades of C- or better, and ENGR 304* (may be taken concurrently) or equivalents
- **Engr 303**: PHYS 240* or equivalent with a grade of C- or better.
- **Engr 304**: ENGR 201* and PHYS 240* or equivalents with grades of C- or better.
- **Engr 441**: ENGR 309* and MATH 245* or equivalents with grades of C- or better.
- **Engr 469**: ENGR 303* or equivalent with a grade of C- or better.



New BSME: (2) Prerequisite Changes

c) C or Better Grade required:

- Must obtain C or Better grades in Math 226, Math 227, and Phys 220 for courses that use these 3 courses as prerequisite courses.



How do prerequisite changes impact you?

- **Foreseeable Future:** We will waive the C- or Better grade requirement for ENGR prerequisite courses taken BEFORE Fall 2026
- **For Fall 2026 & Spring 2027 only:** We will allow concurrent registration of
 - Engr 300 (1 unit) with Engr 282
 - Engr 307 with Engr 213
 - Engr 610 with Engr 282
 - Courses that require new prerequisites, as long as *the other prerequisites are met*



Student may **request a permission number** if they are impacted by the prerequisite changes

- Use the link or QR code below to **submit a Permission Number Request**

<https://forms.gle/rp2J8sMt6ZepLp429>

