



**SJSU** SAN JOSÉ STATE  
UNIVERSITY



# **Proposed Changes to SJSU Undergraduate Admission Impaction Plan for Fall 2024**

*Presented by:*

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## **SJSU is committed to:**

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- **Serving students fairly, equitably and well**
- **Academic quality**
- **Access**
- **Student success and timely progress to degree completion**
- **Preference to applicants from local admission area**



# Goals of Impaction

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- **Increase preparation of students**
- **Reduce student debt**
  - > Cost of attendance per year at SJSU \$30,850 annually (includes on-campus housing expenses)
- **Increase options for continuing students**
  - > Meet student demand for courses
  - > Reduce number of transfer students taking articulated lower division courses at SJSU
    - Completed prerequisites to enroll in upper division engineering coursework
    - Could have taken courses at community college



# Key Terms

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- **Impaction (admission selection process)**

Greater number of qualified applicants than space available in each major

- **Supplemental Criteria**

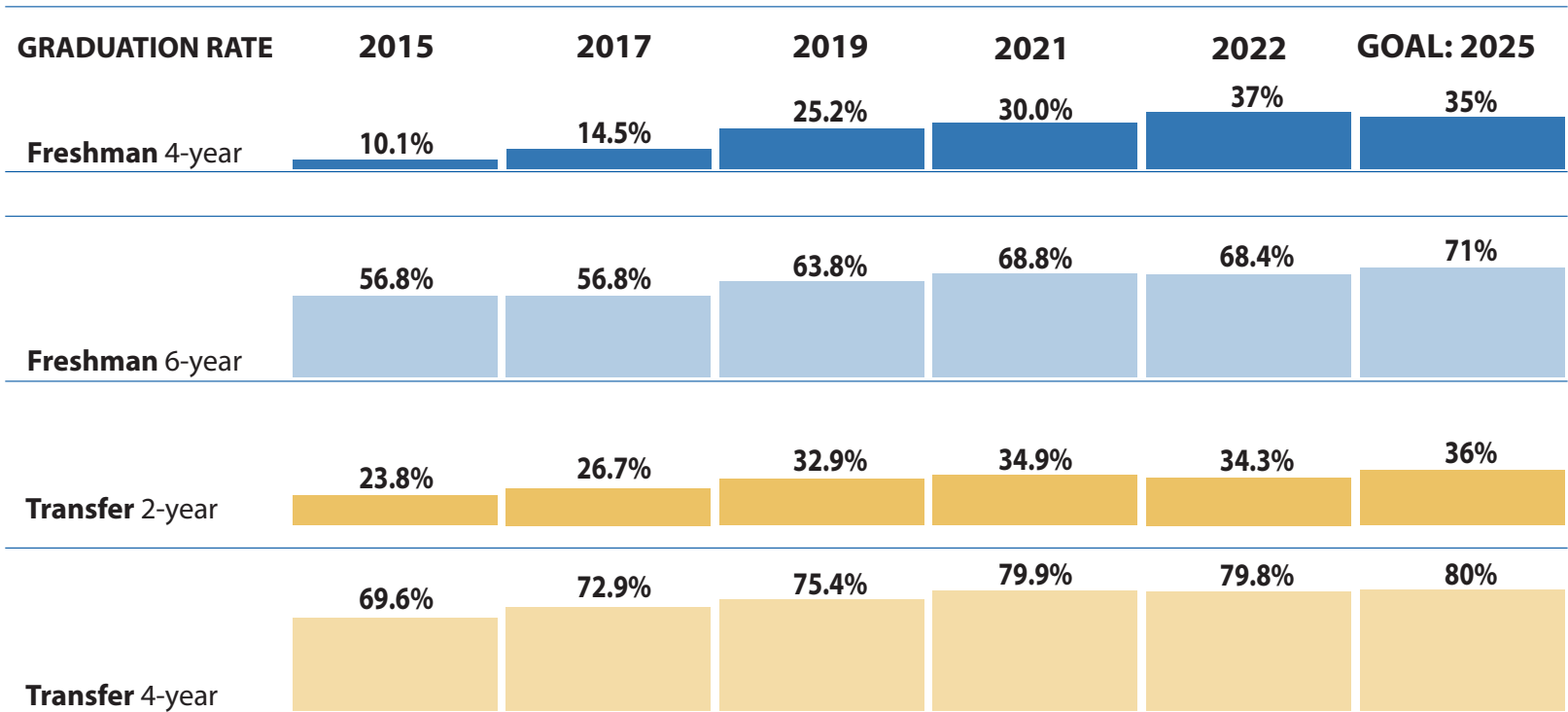
Grade Point Average (GPA), test scores, courses or other measures above CSU-minimum eligibility requirements

- **Local Admissions Area**

High schools (for Frosh) from Santa Clara County or California Community Colleges (for transfers) from Santa Clara and Santa Cruz counties from which applicants receive preferential consideration



# SJSU's Progress - Graduation Initiative 2025



**ACHIEVE EQUITY**  
 ELIMINATE ALL EQUITY GAPS FOR UNDERREPRESENTED MINORITIES AND PELL-ELIGIBLE STUDENTS

The four-year graduation rates for students in the College of Engineering trend below university levels. The proposed changes to impaction could help increase graduation rates in these programs.

# Impaction in CSU and at SJSU

- **Seven CSU campuses are fully impacted**
  - > Impacted for both freshmen and transfer students for all majors:
    - Cal Poly San Luis Obispo
    - Fresno State
    - CSU Fullerton
    - Cal State LA
    - CSU Long Beach
    - San Diego State University
    - San José State
- **Continued undergraduate student interest in SJSU**
  - > Approximately 47,884 applications received for Fall 2022
  - > Demand remains high with 47,596 applications for Fall 2023

**For more information  
regarding Impaction in  
the CSU go to this website:**

[calstate.edu/attend/impaction-at-the-csu](https://calstate.edu/attend/impaction-at-the-csu)

# SJSU Impaction History

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## 2009

Campus-level Impaction Implemented at SJSU.

## 2011-15

Full program impaction for freshmen and transfer.

## 2012

**Removed** the local admission area guarantee.

*-and-*

**Created** the Spartan Pathways program to provide another pathway for local students to attend SJSU.

## 2015 & 2020

**Added** supplemental preparatory coursework for select majors including programs in the College of Engineering.

## 2023

**Added** talent-based component to impaction consideration for Animation & Illustration for both freshmen and transfer applicants

*-and-*

**Removed** supplemental coursework for Animation & Illustration at the transfer level.

## 2024

**Proposal** to modify consideration of supplemental coursework for 11 majors in the Charles W. Davidson College of Engineering to require a subset of supplemental coursework to be completed prior to transfer.



# Local Admission Area - Current

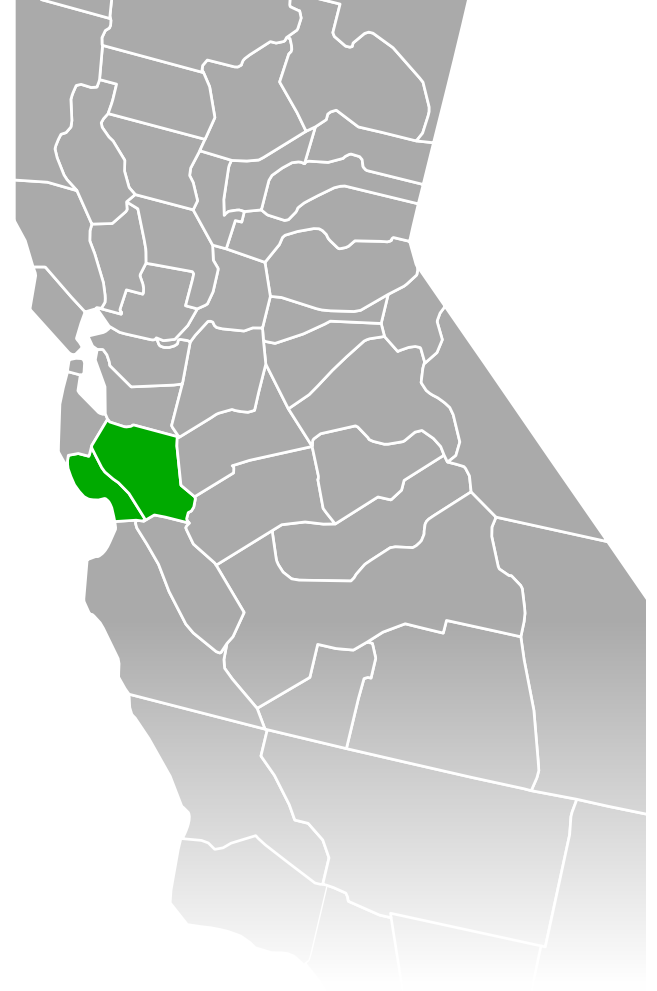
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**Freshmen applicants:** “Local” refers to students who have graduated from a high school located inside Santa Clara county.

**Transfer applicants:** “Local” refers to students who have completed the majority of their transferable units in a college located inside Santa Clara and Santa Cruz counties

**“Local” Community Colleges include:**

- |                  |               |
|------------------|---------------|
| Cabrillo         | Gavilan       |
| DeAnza           | Mission       |
| Evergreen Valley | San José City |
| Foothill         | West Valley   |



# Proposed Changes

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## Beginning Academic Year 2024-2025

- All engineering majors currently have 7 supplemental courses. Completion of each course with a C or better provides a 0.2 GPA bump.
- Two to four of those courses will now be required. The remaining courses will still provide a 0.2 GPA bump if completed.
- Minor changes to the course lists for Computer and Software Engineering are also proposed, to include courses most important for time-to-graduation.

# Unchanged

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## In Place Academic Year 2023-2024

- GPA bump for Associate Degree for Transfer (0.10)
- GPA bump for Local Preference (0.25)
- Spartan Pathways
- Spartan East Side Promise (ESUHSD partnership)

# Concerns about Current Supplemental Coursework Policy

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**Students who have not completed any math or physics prior to transferring to SJSU typically take four more years to graduate. They may not graduate at all in engineering and may change to a different major.**

- 18% of Spring 23 engineering transfer students had not taken at least one of Calculus 1, Calculus 2, or the first physics course.
- Strong prerequisite sequences in these majors mean that students who have not taken those prerequisites typically cannot take a full load upon transferring and experience extensive delays in graduation.
- Students who do not take any math at community college usually will have to start at precalculus or algebra to review what they have forgotten, delaying graduation even further.

# Proposed: Changes to Supplemental Courses Fall 2024

<u>Major</u>	<u>Proposed Required Courses</u>	<u>Supplemental Coursework</u>
Aerospace Engineering	Math 30, Math 31, Phys 50	Chem 1A, CMPE 30, Math 32, Phys 51
Biomedical Engineering	Math 30, Math 31, Phys 50	Chem 1A, Chem 1B, Math 32, Phys 51
Chemical Engineering	Math 30, Math 31, Phys 50	Chem 1A, Chem 1B, Math 32, Phys 51
Civil Engineering	Math 30, Math 31, Phys 50	Chem 1A, CE 95, Math 32, Phys 51
Computer Engineering	Math 30, Math 31, Phys 50, CMPE 30	CMPE 50, Math 32, Phys 51
Electrical Engineering	Math 30, Math 31, Phys 50	Phys 51, Chem 1A, EE 30 or CMPE 30, Math 32
Industrial & System Engineering	Math 30, Math 31, Phys 50	Chem 1A, CMPE 30, Math 32, Phys 51
Interdisciplinary Engineering	Math 30, Math 31, Phys 50	Chem 1A, CMPE 30, Math 32, Phys 51
Materials Engineering	Math 30, Math 31, Phys 50	Chem 1A, Chem 1B, Math 32, Phys 51
Mechanical Engineering	Math 30, Math 31, Phys 50	Chem 1A, CE 95, Math 32, Phys 51
Software Engineering*	Math 30, Math 31	CS 46A, CS 46B, Math 42, Phys 50

\*An AS-T in Computer Science will satisfy all requirements. A student with an AS-T would receive the same 0.8 GPA bump that a student completing all four supplementary courses would receive.

# Availability of the Courses at Community College

The required courses are available at a large fraction of community colleges. Students can also take them online at a different community college.

Course	Percent of California CC's with Articulated Courses
MATH 30	97.4
MATH 31	97.4
PHYS 50	95.6
CMPE 30	88.8

SJSU's Articulation Officer has been active in reaching out to community colleges to get as many courses articulated to both the required course and supplemental course lists as possible.



# First Semester Plans and Time to Graduation for Different Scenarios, Mechanical Engineering Major

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## **Scenario 1: All GE completed but no math or science. Eligible for pre-calculus**

- Semester 1: MATH 19, CHEM 1A, ME 30 (12 units)
- Time to graduation: 9 semesters

## **Scenario 2: All GE completed, chemistry, and Intro to Engr. Eligible for calculus**

- Semester 1: MATH 30, ME 20, ME 30 (8 units)
- Time to graduation: 8 semesters

## **Scenario 3: All GE completed, MATH 30 & 31, Phys 50, no other STEM**

- Semester 1: MATH 32, PHYS 51, Engr 10, ME 20, CE 95 (15 units)
- Time to graduation: 6 semesters

## **Scenario 4: Completed all lower division coursework**

- Semester 1: CE 112, ME 113, ME 101, ME 111, ME 41 (14 units)
- Time to graduation: 4 semesters

Note that for every extra year it takes a student to complete their degree, they experience a loss of average of \$74k in salary (average starting salary of 2021 BS graduates in College of Engineering was \$74,776).

# Proposed Impactation Plan Change Process

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- **CSU Chancellor's Office approval of initial proposal**
- **Public notifications**
  - > Newspapers (March 8, 2023)
  - > Stakeholder public meeting (March 6, 2023)
  - > Three public hearings (March 21, 22, and 23, 2023)
- **Post proposed changes on website (March 1, 2023)**
- **Receive public comments and post on website (ongoing)**
- **Submit final proposal (April 14, 2023)**



# Proposed Impaction Plan Implementation Timeline

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- **Final Decision from CSU Chancellor's Office (May 2023)**
- **Approved changes posted to admissions website for Fall 2024 (August 2023)**
- **Cal State Apply opens for Fall 2024 on October 1, 2023**
- **Admission decisions February–March 2024 with new impaction changes implemented**





# Concluding Remarks

## We believe these changes could:

- **Reduce students' time to graduation and educational cost. Reduce amount of lost salary due to delay in graduation.**
- **Increase retention by making sure that students have the right math and science background to succeed in our programs.**
- **Encourage students to take prerequisite courses at community college, helping them determine if their chosen major is right for them before they have invested a lot of time.**



# Questions and Answers with Panel

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## **Sheryl Ehrman**

Dean, College of Engineering

## **Nicole Okamoto**

Associate Dean, College of Engineering

## **Thalia Anagnos**

Vice Provost for Undergraduate Education

## **Deanna Gonzales**

Director, Undergraduate Admissions



# SAN JOSÉ STATE UNIVERSITY

**For more information and to provide feedback,  
please go to:**

[sjsu.edu/enrollmentmanagement/Impaction2024](https://sjsu.edu/enrollmentmanagement/Impaction2024)

