SJSU SAN JOSÉ STATE UNIVERSITY
Proposed Changes to SJSU Undergraduate Admission Impaction Plan for Fall 2024

Presented by:
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Sr. AVP for Enrollment Management
SJSU is committed to:

- 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

• 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

• **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

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<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Freshman 4-year</td>
<td>10.1%</td>
<td>14.5%</td>
<td>25.2%</td>
<td>30.0%</td>
<td>37%</td>
<td>35%</td>
</tr>
<tr>
<td>Freshman 6-year</td>
<td>56.8%</td>
<td>56.8%</td>
<td>63.8%</td>
<td>68.8%</td>
<td>68.4%</td>
<td>71%</td>
</tr>
<tr>
<td>Transfer 2-year</td>
<td>23.8%</td>
<td>26.7%</td>
<td>32.9%</td>
<td>34.9%</td>
<td>34.3%</td>
<td>36%</td>
</tr>
<tr>
<td>Transfer 4-year</td>
<td>69.6%</td>
<td>72.9%</td>
<td>75.4%</td>
<td>79.9%</td>
<td>79.8%</td>
<td>80%</td>
</tr>
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**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
## SJSU Impaction History

<table>
<thead>
<tr>
<th>Year</th>
<th>Actions</th>
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</thead>
<tbody>
<tr>
<td>2009</td>
<td>Campus-level Impaction Implemented at SJSU.</td>
</tr>
<tr>
<td>2011-15</td>
<td>Full program impaction for freshmen and transfer.</td>
</tr>
<tr>
<td>2012</td>
<td>Removed the local admission area guarantee.</td>
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<tr>
<td></td>
<td>-and- Created the Spartan Pathways program to provide another pathway for local students to attend SJSU.</td>
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<tr>
<td>2015 &amp; 2020</td>
<td>Added supplemental preparatory coursework for select majors including programs in the College of Engineering.</td>
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<tr>
<td>2023</td>
<td>Added talent-based component to impaction consideration for Animation &amp; Illustration for both freshmen and transfer applicants</td>
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<td></td>
<td>-and- Removed supplemental coursework for Animation &amp; Illustration at the transfer level.</td>
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<tr>
<td>2024</td>
<td>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.</td>
</tr>
</tbody>
</table>
Local Admission Area - Current

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
- DeAnza
- Evergreen Valley
- Foothill
- Gavilan
- Mission
- San José City
- West Valley
<table>
<thead>
<tr>
<th>Proposed Changes</th>
<th>Unchanged</th>
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<tbody>
<tr>
<td><strong>Beginning Academic Year 2024-2025</strong></td>
<td><strong>In Place Academic Year 2023-2024</strong></td>
</tr>
<tr>
<td>• All engineering majors currently have 7</td>
<td>• GPA bump for Associate Degree for Transfer (0.10)</td>
</tr>
<tr>
<td>supplemental courses. Completion of each</td>
<td>• GPA bump for Local Preference (0.25)</td>
</tr>
<tr>
<td>course with a C or better provides a 0.2</td>
<td>• Spartan Pathways</td>
</tr>
<tr>
<td>GPA bump.</td>
<td>• Spartan East Side Promise (ESUHSD partnership)</td>
</tr>
<tr>
<td>• Two to four of those courses will now be</td>
<td></td>
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<tr>
<td>required. The remaining courses will still</td>
<td></td>
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<tr>
<td>provide a 0.2 GPA bump if completed.</td>
<td></td>
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<tr>
<td>• Minor changes to the course lists for</td>
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<td>Computer and Software Engineering are</td>
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<tr>
<td>also proposed, to include courses most</td>
<td></td>
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<td>important for time-to-graduation.</td>
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</table>
Concerns about Current Supplemental Coursework Policy

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

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

*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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Percent of California CC’s with Articulated Courses</th>
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<tbody>
<tr>
<td>MATH 30</td>
<td>97.4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>97.4</td>
</tr>
<tr>
<td>PHYS 50</td>
<td>95.6</td>
</tr>
<tr>
<td>CMPE 30</td>
<td>88.8</td>
</tr>
</tbody>
</table>

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

**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 Impaction Plan
Change Process

• 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

• 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

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