Updated: Aug 2024

SAINT LOUIS UNIVERSITY MADRID

**Name:**

**SID:**

**Degree:** B.S.

**Major(s):** Mechanical Engineering

**Minor(s):**

**Earned Hours:** **Cumulative GPA:**

## *Mechanical Engineering Requirements*

| Course | Grade | Credits |
|---|---|---|
| *Basic Engineering:* | | |
| CSCI 1060 Scientific Programming | | 3 |
| ECE 1100 | | 2 |
| ECE 1200 | | 2 |
| SE 1700 Engineering Fundamentals | | 2 |
| SE 1701 Engineering Studio | | 1 |
| *MENG Required Courses[+]:* | | |
| MENG 1000 Design Thinking | | 3 |
| MENG 1011 Prototyping | | 1 |
| MENG 2100 Statics | | 3 |
| MENG 2150 Dynamics | | 3 |
| MENG 2310 Thermodynamics | | 3 |
| MENG 2400 Mechatronics Sys. Des. | | 3 |
| MENG 2450 Engin. Experimentation | | 3 |
| MENG 3001 ME Lab | | 1 |
| MENG 3010 Machine Design | | 3 |
| MENG 3105 Mechanics of Solids | | 1 |
| MENG 3110 Linear Vibration | | 3 |
| MENG 3111 Mechanics Lab | | 1 |
| MENG 3200 Fluid Dynamics | | 3 |
| MENG 3510 Materials Science | | 3 |
| MENG 3600 Manuf. Processes | | 3 |
| MENG 4024 Mech. Sys. Design | | 4 |
| MENG 4300 Heat Transfer | | 3 |
| MENG 4304 Thermal Sys. Design | | 3 |
| MENG 4450 Mechatronics | | 3 |
| *Technical Electives (12 credits):* | | |
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**[+]See MENG course prerequisites on page 3 ↓**

| Course | Grade | Credits |
|---|---|---|
| *Basic Science & Mathematics:* | | |
| CHEM 1110 | | 3 |
| CHEM 1115 | | 1 |
| PHYS 1610 | | 3 |
| PHYS 1620 | | 1 |
| PHYS 1630 | | 3 |
| PHYS 1640 | | 1 |
| MATH 1510 | | 4 |
| MATH 1520 | | 4 |
| MATH 2530 | | 4 |
| MATH 3550 | | 3 |
| MATH/SCI. Elective | | 3 |

## *Additional Program/Electives*

| Course | Grade | Cr. |
|---|---|---|
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To be certified for graduation, a student is required to...

1. Complete no less than 120 credits, including the MENG major;
2. Have at least a 2.0 cumulative GPA, a 2.0 MENG GPA, and a 2.0 GPA in the minor or 2nd major;
3. Complete 30 of the final 36 cr. at SLU;
4. Submit the on-line application for graduation at the beginning of the last semester of study.

***Note: This worksheet is an advising tool, not an official document to certify academic record.***

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# *University Undergraduate Core*

| Course | Grade | Cr. |
|---|---|---|
| **First Year** | | |
| ***SE 1700** Ignite Seminar* | | 3 |
| *CORE 1500 Cura Personalis 1: Self in Community* | | 1 |
| *ENGL 1900 Eloquentia Perfecta: Written & Visual Comm.* | | 3 |
| **First Two Years** | | |
| *Eloquentia Perfecta: Oral & Visual Comm.*<br>CMM 1200, LLC 1255, SPAN 3020 | | 3 |
| *Ultimate Questions: Theology*<br>THEO 1600, HCE 1600 | | 3 |
| *Ultimate Questions: Philosophy*<br>PHIL 1700 | | 3 |
| *Ways of Thinking: Quantitative Reasoning*<br>**CSCI 1060**<br>**MATH 1510/1520/2530** | | 3 |
| *CORE 2500 Cura Personalis 2: Self in Contemplation*<br>THEO 2110/2210/2430<br>Experiences: https://www.slu.edu/core/core-classes/cura-personalis-2.php | | 0-3 |
| **Junior/Senior Years** | | |
| *CORE 3500 Cura Personalis 3: Self in the World* | | 1 |
| *CORE 4000: Collaborative Inquiry* -- Any course with the UUC: CI attribute | | 2-3 |
| **Anytime** | | |
| *Eloquentia Perfecta: Creative Expression*<br>ART 2000/2100/2150/2200/2450, MUSC 2090/3400, DANC 2000/2650/2660/2670,<br>THR 2510/3560, CMM 1500/2510/2550, ENGL 30x0/3100 | | 3 |
| *Eloquentia Perfecta: Writing Intensive*<br>CMM 2100, ENGL 3140/3220/3240/3260/3470/3490/3875/4000, SPAN 3030, THEO 3375 | | 3 |
| *Ways of Thinking: Social and Behavioral Sciences*<br>ANTH 1210/2200, CMM 1000/2400/3000/3300/4460, ECON 1900, ENGL 4110<br>POLS 1100/1150/1600/2640, PSY 1010/3100/3120/3210/3300/3460, SPAN 4020/4030 | | 3 |
| *Ways of Thinking: Aesthetics, History & Culture*<br>ARTH 1010/1080/1090/2070, CMM 3460/3840<br>ENGL 2020/2250/2350/2450/2550/2650/2750/2850/3140/3220/3250/3260/3470<br>HIST 1110/1120/1600/1610/3090/3720, VPA 1000, MUSC 1000/1170, THR 1500<br>SPAN 4200/4260/4760/4790, THEO 2110/2210/2755/3375 | | 3 |
| *Ways of Thinking: Natural and Applied Sciences*<br>**CHEM 1110** | | 3 |
| **Equity and Global Identities (0-Credit Attributes)** | | |
| *Identities in Context* | | |
| ANTH 1200/1210, CMM 3300, ENGL 2550/3330, VPA 1000, HCE 1600,<br>HIST 1600/1610/3720, IPE 2100, PHIL 4810, POLS 1510/2590/3770, SPAN 4020/4790,<br>THEO 2710, WGST 4810X | | |
| *Global Interdependence* | | |
| ANTH 2200, ARTH 1010/ARTH 1090, CMM 4460, ENGL 3330/3500, HIST 1120/3420/3720,<br>IB 2000/3700, IPE 2100, POLS 1600/2560/2590, SOC 1180, THEO 2710/2755 | | |
| *Dignity, Ethics & Just Society* | | |
| CSCI 3050, ENGL 2250/3240/3500, HIST 3340, PHIL 2050/3050X/3700/4810<br>POLS 1500/1510/2691/3567/3770, THEO 3115, WGST 1900/3850/4810X | | |
| *Reflection in Action* | | |
| Internships<br>Approved Experiences: https://www.slu.edu/core/core-classes/reflection-in-action.php | | |

***New UUC attributes are approved every academic year. Please check Courses@SLU for newly approved UUC course offerings not listed on this checklist.***

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| MENG Course | Prerequisite(s) |
|---|---|
| MENG 1000 | SE 1700 |
| MENG 2000 | PHYS 1610* + MENG 1000* |
| MENG 2100X | PHYS 1610 |
| MENG 2150 | MENG 2100X* + MATH 1520 |
| MENG 2310 | MATH 2530* |
| MENG 2400 | ECE 1100 + ECE 1200 |
| MENG 3001 | MENG 3110 + MENG 3510 |
| MENG 3010 | MENG 3105 |
| MENG 3101 | Corequisite: MENG 3105 |
| MENG 3105 | MENG 2100X + MATH 2510* |
| MENG 3110 | MENG 2150 + MATH 3550* |
| MENG 3111 | MENG 3105* + MENG 3200* |
| MENG 3200 | MATH 2530* |
| MENG 3201 | MENG 3200 |
| MENG 3510X | MENG 3105, CHEM 1110 |
| MENG 3600 | MENG 1011 + MENG 3510 |
| MENG 4024 | MENG 3010 + MENG 4450; 90 earned credits |
| MENG 4300 | CSCI 1060 + MENG 2310 + MENG 3200 |
| MENG 4304 | MENG 4300 |
| MENG 4450 | MENG 2400 + MENG 2450 |

*Concurrent registration allowed