

Student Name: _____

11th Grade Course Request Form

DUE BY EMAIL TO DWELCOME@LWSD.ORG MON JAN. 25th @ 8AM

MANDATORY EMAIL SUBJECT LINE: 11th Grade Course Request Forms

Before selecting courses, please read and initial the following:

- ____ I understand that if a course is offered at Tesla STEM, I **must take it at STEM**.
- ____ I have reviewed the Course Catalog to **check mandatory prerequisites** before selecting courses.
- ____ I have reviewed the Course Catalog for graduation and university **credit requirements** to guide my selections.
- ____ I have read the **AP Course Expectations** page **BEFORE** choosing my classes.

I. CORE CLASSES: Juniors take 7 periods, including Math, English, U.S. History, and a Signature Lab/Pathway

1. Math (choose 1): Select the course that comes after your **CURRENT** math class.

☐ Geometry ☐ Algebra 2 (Honors) ☐ Precalculus (Honors) ☐ AP Calc AB ☐ AP Calc BC

2. English: ☐ Hon. English 11 **OR** ☐ AP Language & Composition

3. Honors Chemistry (required) **OR** ☐ I already completed Hn Chem and will take an elective (write in below)

4. Honors US History & International Relations (required)

5. Signature Lab Concentration (choose only 1): ☐ AP Psych & Forensics (2 classes) **OR** ☐ EESD (1 class)

ELECTIVES: You will have 1-3 depending on your choices above. Flip over this page for a list of elective options (Section I). List in order of preference (#1= your top choice, #2= your second choice, etc.).

#1: _____ #2: _____ #3: _____ #4 (Alternate): _____

II. OPTIONAL CLASSES: Select which classes you would like to commit to **in addition** to your 7 core classes.

☐ **Orchestra** (2x/week after school)

☐ **Choir** (2x/week after school)

Are you planning to take any **summer or online** coursework for credit? Review requirements with your counselor for credit approval *before* registering for any course outside of STEM/LWSD.

III. REVIEW AND SIGN

I approve my above requested course selections for my 2021-22 school year schedule. I understand that:

- Missing or unsigned forms (including AP expectations forms) will be **considered late after 8am on Monday, Jan. 25th, 2021. Placement priority goes to students who have turned in all forms on time.**
- The **signed AP Expectations Form** must be turned in to be considered for placement in an AP class. Students are urged to consider a well-balanced academic schedule.
- We make effort to accommodate each request; however, honoring every student's 1st choice may not be possible.
- Each class is a yearlong commitment from this point forward, and *future schedule changes can only be made to balance class sizes.*

Student Name (Print)

Signature

Date

Parent Name (Print)

Signature

Date

I. Elective Options (see Course Catalog for complete descriptions)

- Spanish 3 (Honors)** –Builds on the language structure learned in Spanish II. Students will incorporate grammar and vocabulary into reading, writing and conversation at a more advanced level. Instruction is mostly in Spanish. **Prerequisite: Spanish 2**
- Chemistry (Honors)** – Explore the world of elements, molecules and chemical reactions. A lab science course that takes real-world data and applies mathematical concepts to discover patterns within the physical world. Students will understand major chemical properties and processes, conduct algebra-based scientific investigation, and communicate scientific results via lab reports. **Prerequisite: None**
- Chemistry (AP)** - This course is designed to be taken only after a successful completion of a first course in high school chemistry. Students will be prepared to take an AP exam in May. **Prerequisite: Honors Chem; Recommended grade of "B" or higher in Alg. 2.**
- Engineering I** –A hands-on, project-based course which emphasizes the historic achievements and contemporary challenges of engineers, the engineering design process, and the skills and habits of mind that engineers find most essential. **Prerequisite: None**
- Engineering II** –Designed to build on the knowledge and skills acquired in the first year of engineering and to challenge students with more complex projects and more independent decision making. Hands-on and project-based. Addresses challenges ranging from automotive and mechanical engineering to electrical and energy system engineering. **Prerequisite: Engineering I**
- Engineering III/STEM Startups** – An interdisciplinary design, business, and engineering class. Students are empowered with an entrepreneurial mindset, connected to a network of industry professionals, and exposed to frameworks and tools that help them design better products and businesses. **Prerequisite: Engineering I; 11th & 12th grade only**
- AP Comp Sci A** – The emphasis in this course is on procedural and data abstraction, object-oriented programming and design methodology, algorithms, and data structures. It centers on understanding programming concepts and projects that explore a broad range of fields that leverage programming. AP exam is taken in May. **Prerequisite: AP CS Principles or Comp. Prog; 11 & 12th gr only**
- Data Structures**-This course covers the essential information that every serious programmer needs to know about algorithms and data structures, emphasizing applications and scientific performance analysis of Java implementations. **Prerequisite: APCS A**
- Advanced Projects in Java**-A course for students who have had success in both AP Computer Science & Data Structures to further explore a career in software development. 1st semester will focus on pair programming projects exploring different areas of software development. 2nd Semester will comprise of a larger group capstone project modeling a full software development lifecycle. **Prerequisite: Data Structures**
- AP Statistics** – Learn the major concepts and tools for collection, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. **Prerequisite: Successful completion of Algebra 2.**
- Independent Research Period:** Students will receive instruction and have time to work in class on their research, which includes finding a mentor, finding and reading scientific articles, completing literature reviews, writing their research plan, completing their fair paperwork, conducting their experiment, statistically analyzing their data, working on their photoshop document for their trifold poster board, writing their research paper and plotter printing. **Prerequisite: Current Junior; concurrent enrollment in either Forensics, EESD, Computer Science, or Engineering, and commitment to compete in CSRSEF and WSSEF.**
- Business and Marketing Foundations:** This yearlong course focuses on an intro to business structure, the fundamentals of marketing, including market research, product development, pricing and promotion of goods and services, and an introduction to finance and operations. This course will connect economic theory in today's global business climate with entrepreneurial endeavors in the above business management functions. Business ethics, workplace skills, and professional behaviors will be identified and practiced throughout the course. This course will also offer an intro to digital marketing, incorporating the concept of innovation in today's business climate. This class is recommended as a baseline class for further marketing and business classes. **Prerequisite: None**
- Peer Tutor**-Students approved to be a peer tutor will be matched with an instructor in a subject the student is knowledgeable in and will be in the instructor's classroom on a daily basis to support students needing extra academic assistance. Students are required to meet three days per week during 0 period for instructional leadership training. **Prerequisite: On track with grad requirements, works well with others, and counselor approval.**

II. Optional Before/After School Class Offerings

- Choir** – Choir introduces the vocal music student to the demands and schedule of performance at the high school level. Students will continue to develop individual musicianship and technical skills through the study and performance of a variety of music. Students will receive .5 credits for the year. **Prerequisite: Previous choir experience preferred, but not required.**
- Orchestra** – Orchestra introduces the string student to the demands and schedule of performance at the high school level. Students will continue to develop individual musicianship and technical skills through the study and performance of a variety of music. Students will receive .5 credits for the year. **Prerequisite: Previous band or orchestra experience preferred, but not required.**