

Student Name: \_\_\_\_\_

# **12<sup>th</sup> Grade Course Request Form**

**DUE BY EMAIL TO [DWELCOME@LWSD.ORG](mailto:DWELCOME@LWSD.ORG) MON, JAN. 25<sup>th</sup> @ 8AM**

**MANDATORY EMAIL SUBJECT LINE: 12th 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:**

1. **Math** (choose 1): Select the course that comes after your **CURRENT** math class.  
☐ Algebra 2 (Honors)      ☐ Precalculus (Honors)      ☐ AP Calculus AB      ☐ AP Calculus BC  
☐ AP Stats\* (\*elective; if taking concurrently with MA, AP Calc AB/BC, then write in Stats as elective choice in section below)
2. **Honors English 12** (required)
3. **Honors Contemporary World Problems** (required) \*Transfer students see counselor if already met CWP.
4. **Semester-long graduation requirements:** \*See Counselors/PowerSchool page for list of approved online providers  
A) **Civics** (Choose 1):  
☐ I will take LWSD-provided online Civics **as part of my 7-period school day (free)**  
☐ I will **self-pay** to take and complete an online Civics class via an **approved out-of-district provider\***  
B) **Health** (choose 1):  
☐ I will take LWSD-provided online Health **as part of my 7-period school day (free)**  
☐ I will **self-pay** to take & complete an online Health class via an **approved out-of-district provider\***  
☐ I **already completed** Health and will take an additional elective instead.
5. & 6. **Senior Lab Concentration** (choose 1): ☐ Advanced Physics Lab **OR** ☐ Advanced Biomedical Lab

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

#1\*: \_\_\_\_\_ #2: \_\_\_\_\_ #3 (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 and turn in forms 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.**
- Students taking online classes outside of STEM/LWSD to complete a graduation requirement (ex: Health/ Civics) are responsible to finish their course(s) in a timely manner and we highly recommend completion during summer 2021!
- 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 academicschedule.
- We make effort to accommodate each request; however, honoring every student's 1<sup>st</sup> choice may not be possible.
- Each class is a yearlong commitment from this point forward. *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** – This course is generally equivalent to the first course in an undergraduate computer science program. Emphasis in the course is on procedural and data abstraction, object-oriented programming and design methodology, algorithms, & data structures. This course centers on understanding programming concepts and projects that explore a broad range of fields that leverage programming. Successful completion of this course and its projects will prepare students for the AP Comp Sci A exam. **Prerequisite: Algebra II & 10<sup>th</sup> Grade and above**

**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: AP Comp. Sci. 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. 1<sup>st</sup> 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**

**Business & 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. **Prerequisite: None**

**Digital Marketing & Social Media:** This course is designed to teach advanced marketing concepts and skills with an application to digital and social media. Upon completion, students should be able to assess the effectiveness of the digital and social media strategies for a small business and suggest ways to create and improve marketing efforts. Search engine optimization, search engine marketing, content marketing, email marketing, affiliate marketing, native advertising, online public relations, and inbound marketing will also be addressed. **Prerequisite: Completion of Business & Marketing Foundations**

**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.**