

Student Name: _____

10th Grade Course Request Form

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

MANDATORY EMAIL SUBJECT LINE: 10th 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: 10th Grade scholars take 7 periods, including Math, Biology, English, and APES.

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

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

2. Biology: Please read AP Bio Expectations & full description in Catalog to choose the right fit for your academic plan.

☐ Honors (w/ option to earn college credit) **OR** ☐ AP (requires signed AP Bio Expectations form to register)

3. Biology Lab (required; taken concurrently with AP/Honors Biology)

4. Honors English 10 (required)

5. AP Environmental Science (required)

6. & 7. ELECTIVES: Write in two choices, plus a backup. Flip over this page for a list of course options (Section I). List in order of preference. (#1= your top choice, #2= your second choice, etc.).

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

*Choice #1 should be Spanish 2 if you haven't met your 2-year language requirement.

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 2021-2022 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** for any AP class and the **signed AP Biology Expectations Form** (only if choosing AP Bio) 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 2 (Honors) – Builds on the foundation of Spanish I. Spanish II reviews and extends Spanish I structures. Students will continue to develop oral and written communication skills by using authentic materials. Grammar will be integrated into the curriculum by studying a variety of themes. The preterit and the imperfect tenses will be introduced. Instruction will be mostly in Spanish.

Prerequisite: *Spanish 1*

Spanish 3 (Honors) – Continues to build on the language structure learned in Spanish I and Spanish II. Spanish III reviews and extends year I and II structures. The subjunctive tense will be introduced. Students will incorporate grammar and vocabulary into reading, writing and conversation at a more advanced level. Instruction will be mostly in Spanish. **Prerequisite:** *Spanish 2*

Chemistry (Honors) – Chemistry is a pre-college course that explores the world of elements, molecules and chemical reactions. This course is an algebra-based lab science course that takes real-world data and applies mathematical concepts to discover patterns within the physical world. By the end of this course, students will be able to demonstrate an understanding of major chemical properties and processes, plan and conduct algebra based scientific investigation, and communicate scientific results via lab reports.

Prerequisite: *None*

Engineering I – Developed by the Cockrell School of Engineering at University of Texas at Austin in collaboration with the National Science Foundation and NASA. This hands-on, project-based course 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 in their work. The first unit focuses on establishing norms for all of our group interactions and for effective documentation of our projects in our engineering notebooks. The next five units all involve designing, building, and testing devices or systems of devices to accomplish specific tasks in response to customer needs. Each unit also emphasizes several specific aspects of the work of professional engineers. The remaining units are: Pinhole Cameras (Discovering Design), Earthquake Simulator (Data Acquisition and Analysis), Piggy Flashlights (Reverse Engineering and Redesign), and Aerial Imaging (Systems). **Prerequisite:** *None*

Engineering II – Picking up where *Engineering I* left off, this course is 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, this course 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 in their work. Students will work in cooperative groups to address challenges ranging from automotive and mechanical engineering to electrical and energy system engineering. The course will culminate in an original design challenge, where students will have an opportunity to apply everything that they have learned in a project of their choice. Students will create formal presentations of their projects, appropriate for community sharing events and for science and engineering competitions. **Prerequisite:** *Engineering I*

AP Computer Science A – This course is generally equivalent to the first course in an undergraduate computer science program. The emphasis in the course is on procedural and data abstraction, object-oriented programming and design methodology, algorithms, and data structures. The course centers on understanding programming concepts and projects that explore a broad range of fields that leverage programming. It is important that students understand that computer science builds upon a foundation of mathematical reasoning and written communication, and students are expected to have acquired these skills before attempting this course. Successful completion of this course and its projects will prepare students for the AP Comp Sci A exam.

Prerequisite: *Algebra II & 10th grade and above.*

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*

II. Optional 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. The course runs from September through June and 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. The course runs from September through June and students will receive .5 credits. **Prerequisite:** *Previous band or orchestra experience preferred, but not required.*