

NIKOLA TESLA STEM HIGH SCHOOL

INSPIRE INNOVATE EDUCATE

Principal: Amie Karkainen

Website: <https://tesla.lwsd.org>

4301 228TH AVE NE

Associate Principal: Dr. Dana Bailey

Phone: 425-936-2770

REDMOND, WA

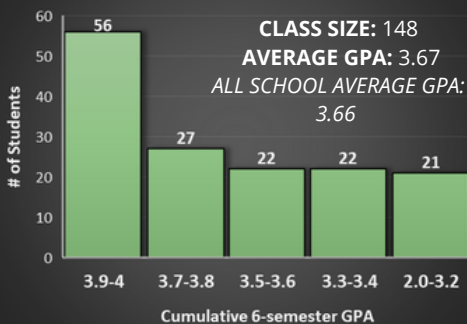
Office Manager: Danielle O'Brien

CEEB Code: 480976

98053

CLASS OF 2026

GPA Distribution: Class of 2026



GRADING SCALE

NEW 2025-2026		OLD (prior to 2025-26)	
A	90-100	A	90-100
B+	87-89	B+	87-89
B	83-86	B	83-86
B-	80-82	B-	80-82
C+	77-79	C+	77-79
C	73-76	C	73-76
C-	70-72	C-	70-72
D+	67-69	P*	60-69**
D	60-67	N*	<59
N*	<59		

* N (No credit) and P grades are GPA-neutral
**P grade was also used (and is now only used) for non-graded courses such as peer tutor, TA

ABOUT US

Tesla STEM is a public choice 9-12 high school dedicated to **rigorous STEM education** in Redmond, WA

- Admission is open to all in-district students through a **random lottery** (> 900 annual submissions for ~150 ninth-grade spots)
- Problem-based curriculum integrates engineering and technology.

9th & 10th Grade: Foundational Years:

Interdisciplinary sequence in science, engineering, and humanities | Authentic Research | Primary Source Analysis | Scientific Investigation | Engineering Design Process

11th & 12th Grade: Application Years:

Students specialize through STEM Lab Concentrations and Pathways, pursuing inquiry, original research, and projects often reaching publication or production.

Course offerings are focused:

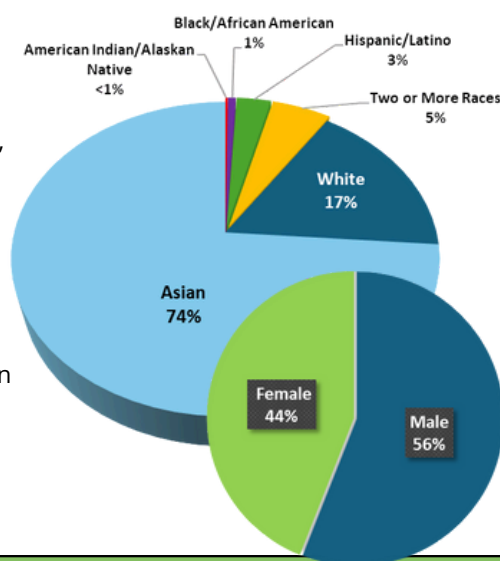
- Students complete an average of 6 science and 4 math courses
- Most classes are offered only at the Honors or AP/Dual Credit level (see next page)
- All students complete AP-level coursework in 9th grade
- World Languages: Up to 3 years of Spanish offered
- Art: 1 art class required (typically completed in 9th grade)

COMMUNITY INFORMATION

- Located in suburban Seattle (Eastside)
- Highly educated, well-resourced, globally diverse
- Parents often employed in technology, management, and health sciences
- Tight-knit community with a culture of academic ambition and innovation.

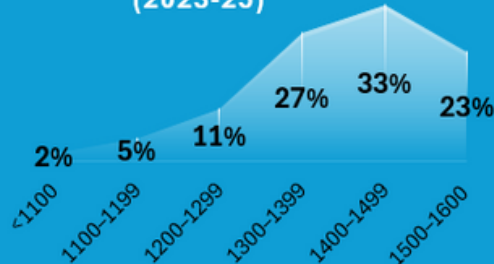
Total Enrollment: 609

Low Income: 3.7%



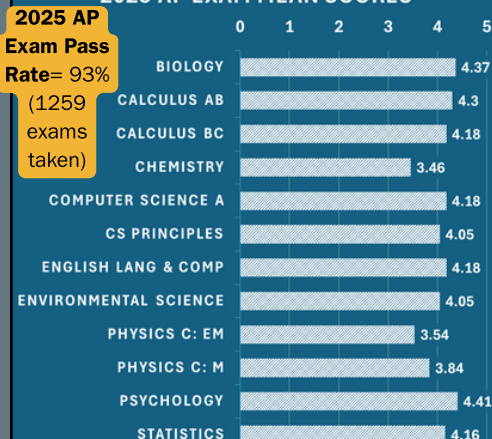
TEST SCORES

SAT SCORE DISTRIBUTION (2023-25)



Class of 2026: 18 National Merit Semifinalists
35 Commended Scholars

2025 AP EXAM MEAN SCORES



STEM LAB CONCENTRATIONS & PATHWAYS

Junior & Senior Lab Concentrations address the goals of UN's 17 Sustainable Development Goals (SDGs) to support a bright and sustainable future on a global scale. Students may enroll in **one** Lab Concentration in grades 11-12. Enrollment is lottery-based if demand exceeds space.

JUNIOR STEM LABS (GRADE 11 ONLY)

- **Dual Credit Environmental Science & Sustainable Design:** Examines causes and effects of climate change w/emphasis on engineering and sustainability solutions.
- **Dual Credit Forensics & AP Psychology:** Integrates forensic science and AP Psychology to study crime, behavior, and systems biology. Students design crime maps, analyze data, and explore brain/behavior connections.

SENIOR STEM LABS (GRADE 12 ONLY)

- **AP Physics C: Mechanics & AP Physics C: Electromagnetism:** Focus on calculus-based modeling and problem solving. Students design and test new devices through hands-on investigation.
- **Dual-Credit Human Anatomy & Physiology & Biomedical Engineering:** Combines Human Anatomy & Physiology with advanced biomedical applications. Project-based research on health, sustainability, and the human body.

STEM PATHWAYS (GRADES 9-12)

- **Engineering 1->Engineering 2 (optional)-> Engineering 3/STEM Startups:** Hands-on design, rapid prototyping, and large-scale projects.
- **Computer Science:** Sequence of 4 courses from introductory programming to advanced mobile app development. Focus on computational thinking, data abstraction, and problem solving. Students participate in coding competitions.

ADVANCED COURSE OFFERINGS

***LWSD moved from a 7 to a 6 period day beginning 2025-26

AP/dual-credit/accelerated courses are available to any students who meet prerequisites

SUBJECT	COURSE NAME *-highest level	LEVEL	Grade typically taken
ART	Graphic Production	CTE Dual Credit	9
ENGLISH	Honors English 9	Honors	9
	Honors English 10	Honors	10
	Honors English 11	Honors	11
	AP English Lang & Comp	AP	11
	Hon Analytical & Critical Reading	Honors	12
LAB SCIENCE	Honors Physics	Honors	9
	AP Environmental Science	AP	10
	Honors Chemistry	Honors	10, 11, 12
	BIOL&160 HNR (Honors Biology)	Dual Credit (BC Dual Credit) & Honors	10
	AP Biology	AP	10
	AP Chemistry*	AP	11, 12
	BIOL100 FORENSIC SCIENCE	Dual Credit (UWHS)	11
	ATMS100 ENV ENGR & SUST DESIGN (Environmental Engineering & Sustainable Design)	Dual Credit (UWHS)	11
	Advanced Biomedical Lab*	Accelerated	12
	ANAT & UW BIOL 118 & 119 (PHYS) (Hon Human Anatomy & Physiology)*	Dual Credit (UWHS) & Honors	12
Math	AP Physics C: EM*	AP	12
	AP Physics C: Mechanics*	AP	12
	Honors Algebra 2	Honors	9th-12th
	Honors Precalculus	Honors	9th-12th
	AP Calculus AB	AP	10, 11, 12
	AP Calculus BC*	AP	11, 12
CTE (Career & Technical Education)	MATH&254 Multivariable Calculus*	Dual Credit (BC Dual Credit)	12
	AP Statistics	AP	11, 12
	Engineering & Entrepreneurship Foundations	CTE Dual Credit	9
	Engineering I	Dual Credit (UT-A & CTE Dual Credit)	9th-12th
	Engineering II*	Accelerated	10, 11, 12
	Engineering III - STEM Startups*	Accelerated	11, 12
	Business & Marketing Foundations	CTE Dual Credit	10, 11, 12
	Bus. & Marketing Management / Digital Marketing & Social Media	CTE Dual Credit	11, 12
	AP Computer Science Principles	AP & CTE Dual Credit	9
	AP Computer Science A	AP	10
Social Studies	Data Structures	Accelerated (Post-AP) & CTE Dual Credit	11
	Advanced Projects in CS*	Accelerated (Post-AP)	12
	Honors US History	Honors	11
World Language	AP Psychology	AP	11
	Hon Contemp. World Problems	Honors	12
	Honors Spanish 1	Honors	9, 10
World Language	Honors Spanish 2	Honors	10, 11, 12
	Hon Spanish 3/SPAN103 (new)	Honors & Dual Credit (UWHS) New 25-26	9th-12th

[View all offerings & grad reqs](#)

[View full course catalog](#)

DIPLOMA REQUIREMENTS

Credit requirements for all grade levels:

<https://www.lwsd.org/students-families/students/high-school-guide>

Tesla STEM offers the typical state minimum requirements in Humanities, enabling our students to maximize opportunities in STEM-based curriculum.

TESLA STEM SCHOOL COUNSELING TEAM

- **Molly Touran, M.Ed.** (Last Names A-J) mtouran@lwsd.org
- **Chase Covington, M.Ed.** (Last Names K-SH) chacovington@lwsd.org
- **Dr. Anthony Smith, Ed.D** (Last Names SI-Z) antsmith@lwsd.org

Counselor:Student Ratio = 1:240

School Counselors serve all college advising roles.

<https://tesla.lwsd.org/counseling>

INTERNSHIPS/MENTORSHIPS

As a critical component in STEM education, our students work in partnership with school staff, college professors, industry experts, and community leaders in a combined effort to further support and enrich students' interests and curiosity. Currently our Internship & Mentorships opportunities are embedded within our STEM labs and business classes. **Some business partners include:** Aerojet- Institute for Systems Biology | Genie/Terex Corp | VA Ventures-Starbucks | Inventcor -Integrus Architecture | MicroGreen-Microsoft | Sustainability Ambassadors/Redmond | WA State Patrol Crime Lab | Waste Management

OUTSIDE OF THE CLASSROOM

Students enrich their learning and community life through 40+ student-led clubs, independent research, and STEM pathways. Students who pursue athletics do so through their neighborhood high schools. Central to our school mission is to develop students' ability to apply learning with an integrated and problem-based approach. Tesla STEM students practice the presentation of long-term projects in all classes. Scholars demonstrate ability to apply these skills outside the classroom setting with the following:

Projects

Awards earned at: Intel ISEF competition | Congressional Apps Challenge | Technology Student Association | Verizon Apps challenge

Competitions

Awards earned at: WA State Science & Engineering Fair: multiple awards including Genius Olympiad and Gold Prize award | Central Sound Science Fair: Grand Prize Winner and multiple awards | Hunt The Wumpus Microsoft Competition | National History Day

Presentations Model UN: Outstanding Delegate | FBLA: National and State awards

Other Notable Student Clubs/Organizations:

Equity Board | STEM Startups | Maker Club | Science Olympiad | STEM Reach | Key Club | National Science Bowl Club | Art Honor Society |

POST-SECONDARY OUTCOMES

95% go on to attend a 4-year college

4% go on to attend a 2-year college

2021-25 Tesla STEM graduates have gone on to attend many colleges, including:

200+ Students

University of Washington (Seattle + Bothell)

10+ Students

Bellevue College | Northeastern University | Purdue | UC-Irvine | UC- Davis | UC San Diego | University of Illinois- Urbana Champaign | Washington State University | Western Washington University

5+ Students

California Polytechnic State University | Carnegie Mellon | Case Western Reserve University | Cornell University | M.I.T. | New York University | Oregon State University | San Diego State University | Seattle University | Stanford University | UC- Berkeley | University of Massachusetts at Amherst | University of Michigan | University of Minnesota | University of Wisconsin