

Winter Park 9th Engineering Program Application

The Project Lead the Way Engineering Program is a sequence of courses all aligned with appropriate national learning standards, which follows a proven hands-on, real-world problem-solving approach to learning. In PLTW Engineering, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are immersed in design as they investigate topics such as ethics, sustainability, mechatronics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and the environment, which gives them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers.

For more information, please visit the Project Lead the Way website at <https://www.pltw.org/our-programs/pltw-engineering-curriculum>

Schools offer a minimum of three courses by the end of the third year of implementation: Introduction to Engineering Design, Principles of Engineering, and any specialization course or the capstone course.

4 year Course Sequence

9th- Introduction to Engineering Design

10th- Principles of Engineering

11th & 12th – Specialization courses: Digital Electronics **or** Computer Integrated Manufacturing **or** Civil Engineering and Architecture **or** Aerospace Engineering **or** Biotechnical Engineering **or** Engineering Design & Development

Course Requirements:

- Have an interest in engineering or a related field
- Have taken a high school level math course and received an A or B
- Have two teacher recommendations- *one must be from their math teacher*
- Have maintained a middle school GPA of at least a 3.0
- Have good attendance

PARENTS: Please have your student fill out the application and print in ink.

Student Name: _____ Parent/Guardian's Name(s): _____

Home Phone: _____ Work Phone: _____

Parent/Guardian's E-mail address: _____ Cell Phone: _____

School attended in 2018-2019: _____ Current GPA: _____

Current Science Course: _____ Current Grade: _____

Current Math Course: _____ Current Grade: _____

1. Explain why you are interested in this program and how the program might relate to your future goals.

Student Signature _____ Date _____

Parent Signature _____ Date _____

Students should submit this application with two teacher recommendations to their current School Counselor.

Engineering Program Recommendation #1- Math Teacher

Student Name: _____

Teacher Subject Area: _____

TEACHER: Please rate the student to the best of your knowledge. Your honest information will help to determine the future success of this student in the program. Thank you for your time.

Attribute	Poor	Fair	Good	Exceptional (Top 10%)	No Basis for Judgment
Completes homework on time					
Engages in class					
Takes responsibility for own learning					
Works well with others					
Has strong math/science skills					
Uses class time effectively					
Personal motivational level					

Any other comments about this student that would be relevant to their success in this course.

School Name: _____ Phone or E-mail: _____

Teacher Signature: _____ Date: _____

Engineering Program Recommendation #2

Student Name: _____

Teacher Subject Area: _____

TEACHER: Please rate the student to the best of your knowledge. Your honest information will help to determine the future success of this student in the program. Thank you for your time.

Attribute	Poor	Fair	Good	Exceptional (Top 10%)	No Basis for Judgment
Completes homework on time					
Engages in class					
Takes responsibility for own learning					
Works well with others					
Has strong math/science skills					
Uses class time effectively					
Personal motivational level					

Any other comments about this student that would be relevant to their success in this course.

School Name: _____ Phone or E-mail: _____

Teacher Signature: _____ Date: _____