**PERSONAL**

* [**Dual College Credit**](https://www.rentonschools.us/learning-and-teaching/career-and-technical-education/career-college-readiness/make-a-plan/dual-credit) **opportunities**
* [**Industry Certification**](https://www.rentonschools.us/learning-and-teaching/career-and-technical-education/cte-in-the-renton-school-district/career-connected-learning/industry-certification) **opportunities**

**PROGRAM OF STUDY**

Check off credits as you fill in your plan.

**CORE CREDITS**

**Language Arts**

**(4 credits = 8 Trimesters)**

Language Arts 9 ☑ ☑

Language Arts 10 ☑ ☑

Language Arts 11 ☑ ☑

Language Arts 12 ☑ ☑

**Math**

**(3 credits = 6 Trimesters)**

Algebra 1 ☑ ☑

Geometry ☑ ☑

3rd Qualifying Course ☑ ☑

**Social Studies**

**(3 credits = 6 Trimesters)**

World History ☑ ☑

US History ☑ ☑

Civics/World Issues ☑ ☑

**Science**

**(3 credits = 6 Trimesters)**

NGSS Biology ☑ ☑

NGSS Chemistry ☑ ☑

3rd Qualifying Course ☑ ☑

**Career & Technical Ed.**

**(1 credit = 2 Tri’s)** ☑ ☑

**Fine Arts**

**(1 credit = 2 Tri’s)** ☑ ☑

**Health**

**(.5 credit = 1 Trimester)**  ☑

**Physical Education**

**(1.5 credits = 3 Tri’s)** ☑ ☑ ☑

**FLEXIBLE CREDITS**

**Personal Pathway**

**(3 credit = 6 Trimesters)**

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**Electives**

**(6 credits = 12 Trimesters)**

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**STEM PATHWAY**

**SAMPLE FOCUS: Pre-Engineering**

\*Employment of architecture and engineering occupations is projected to grow 4 percent from 2018 to 2028, about as fast as the average for all occupations. About 113,300 new jobs are projected to be added. Most of the projected job growth in this group is in the engineer occupations, as their services will be in demand in various areas such as rebuilding of infrastructure, renewable energy, oil and gas extraction, and robotics.

\*[US Bureau of Labor Statistics](https://www.bls.gov/ooh/architecture-and-engineering/home.htm)

**Sample Course Plan**

**17 Core Credits + 9 Flexible Credits = 26 Total Credits required for graduation**

9th Grade - Must include at least 2 LA, 2 Math, 2 Science, 1 Health, recommend 1 Computer course\*

| **Trimester 1** | **Trimester 2** | **Trimester 3** |
| --- | --- | --- |
| Language Arts 9 | Language Arts 9 | NGSS Biology |
| NGSS Biology | Algebra | Algebra |
| Health | IT Academy - Word | PE |
| Algebra | Welding and Plasma Cutting Arts | IT Academy - Excel |
| Industrial Technology - Intro | Industrial Tech – Design Process | Industrial Tech - Manufacturing |

10th Grade - Must include at least 2 LA, 2 Math, 2 Science, 2 SS

(4-year colleges require 2 credits same World Language)

| **Trimester 1** | **Trimester 2** | **Trimester 3** |
| --- | --- | --- |
| Language Arts 10 | Language Arts 10 | NGSS Chemistry |
| NGSS Chemistry | Geometry | Geometry |
| World History | World History | PE |
| Pre-Engineering | Pre-Engineering | CAD |
| Spanish | Spanish | Spanish |

11th Grade - Must include at least 2 LA, 2 Math, 2 Science, 2 SS

| **Trimester 1** | **Trimester 2** | **Trimester 3** |
| --- | --- | --- |
| Spanish | Language Arts 11 | Language Arts 11 |
| US History | US History | Guitar |
| AP Environmental Science | AP Environmental Science | AP Environmental Science |
| Algebra 2 | PE | Algebra 2 |
| Robotics | Robotics | Robotics Practicum |

12th Grade - Must include at least 2 LA, 2 SS (4-year colleges recommend a 4th year of math)

| **Trimester 1** | **Trimester 2** | **Trimester 3** |
| --- | --- | --- |
| Humanities | Humanities | Civics/World Issues |
| Civics/World Issues | Construction Technology | Construction Technology |
| AP Computer Science Principles | AP Computer Science Principles | Humanities |
| AP Physics | AP Physics | AP Physics |
| Math Analysis | Math Analysis | Trigonometry |

\*Choose from any IT Academy course, Computer Programming, or AP Computer Science

**After High School Options**

**Employment** – Most careers in engineering require additional training after high school. However, part-time work in an engineering-related business (while pursuing further training) can help familiarize you with the general industry.

**Apprenticeship** – Some areas of engineering have an [apprenticeship](https://www.apprenticeship.gov/) path.

**College/University** – For the most part, a bachelor’s degree is required to become an engineer. Be sure to take college entrance requirements into account (such as 2 World Language credits and 4years of math). Get a head start on earning college credits by taking dual credit courses such as AP/IB courses and CTE Dual Credit courses. Also note that there are Engineering Technician opportunities available by pursuing a 2-year degree or certificate.

**Military** – Your pre-engineering skills translate directly to many jobs in the armed services. See [todaysmilitary.com](https://www.todaysmilitary.com/careers-benefits/career-fields/science-technology-engineering-mathematics) for more information.

For help in planning your Personal Program of Study see the [STEM Pathway page](https://www.rentonschools.us/learning-and-teaching/career-and-technical-education/cte-in-the-renton-school-district/career-pathways-programs-of-study/stem) on the Renton School District website.

**PERSONAL**

**PROGRAM OF STUDY**

Check off credits as you fill in your plan.

**CORE CREDITS**

**Language Arts**

**(4 credits = 8 Trimesters)**

Language Arts 9 🗆 🗆

Language Arts 10 🗆 🗆

Language Arts 11 🗆 🗆

Language Arts 12 🗆 🗆

**Math**

**(3 credits = 6 Trimesters)**

Algebra 1 🗆 🗆

Geometry 🗆 🗆

3rd Qualifying Course 🗆 🗆

**Social Studies**

**(3 credits = 6 Trimesters)**

World History 🗆 🗆

US History 🗆 🗆

Civics/World Issues 🗆 🗆

**Science**

**(3 credits = 6 Trimesters)**

NGSS Biology 🗆 🗆

NGSS Chemistry 🗆 🗆

NGSS Physics 🗆 🗆

**Career & Technical Ed.**

**(1 credit = 2 Tri’s)** 🗆 🗆

**Fine Arts**

**(1 credit = 2 Tri’s)** 🗆 🗆

**Health**

**(.5 credit = 1 Trimester)**  🗆

**Physical Education**

**(1.5 credits = 3 Tri’s)** 🗆 🗆 🗆

**PERSONAL PATHWAY**

**(3 credit = 6 Trimesters)**

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**ELECTIVES**

**(6 credits = 12 Trimesters)**

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**STEM PATHWAY**

**YOUR FOCUS:**

Many different job areas fall under the STEM Pathway. Choose your area of interest and use this page to plan the courses that will best ensure your success.

For help in planning your Personal Program of Study see the [STEM Pathway page](https://www.rentonschools.us/learning-and-teaching/career-and-technical-education/cte-in-the-renton-school-district/career-pathways-programs-of-study/stem) on the RSD website.

**Your Course Plan**

**17 Core Credits + 9 Flexible Credits = 26 Total Credits required for graduation**

9th Grade - Must include at least 2 LA, 2 Math, 2 Science, 1 Health, recommend 1 Computer course\*

| **Trimester 1** | **Trimester 2** | **Trimester 3** |
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10th Grade - Must include at least 2 LA, 2 Math, 2 Science, 2 SS

(4-year colleges require 2 credits same World Language)

| **Trimester 1** | **Trimester 2** | **Trimester 3** |
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11th Grade - Must include at least 2 LA, 2 Math, 2 Science, 2 SS

| **Trimester 1** | **Trimester 2** | **Trimester 3** |
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12th Grade - Must include at least 2 LA, 2 SS (4-year colleges recommend a 4th year of math)

| **Trimester 1** | **Trimester 2** | **Trimester 3** |
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**After High School Options**

**Employment**

**Apprenticeship**

**College/University**

**Military**