



## ENGINEERING MAGNET PROGRAM PLTW©

### Sample Four Year Plan

| Freshman Year                  | Sophomore Year                      | Junior Year          | Senior Year            |
|--------------------------------|-------------------------------------|----------------------|------------------------|
| Theology 1                     | Theology 2                          | Theology 3           | Theology 4             |
| English 1                      | English 2                           | English 3            | English 4              |
| <i>*Algebra 1H</i>             | <i>*Algebra 2</i>                   | <i>*Pre-Calculus</i> | <i>*Calculus</i>       |
| <i>*Biology</i>                | <i>*Chemistry</i>                   | <i>*Science</i>      | <i>*Science</i>        |
| <i>Geometry</i>                | World History                       | US History           | American Gov/Economics |
| World Language 1               | World Language 2                    | Fine Art             | PE                     |
| <i>*Intro to Engineering H</i> | <i>*Principles of Engineering H</i> | <i>*EMP Elective</i> | <i>*EMP Elective</i>   |
| Frosh Comm/Health (Summer)     |                                     |                      |                        |

### Sample EMP Four Year Plan for: Student Athlete, Artist or SERP

| Freshman Year                      | Sophomore Year                      | Junior Year                        | Senior Year                          |
|------------------------------------|-------------------------------------|------------------------------------|--------------------------------------|
| Theology 1                         | Theology 2                          | Theology 3                         | Theology 4                           |
| English 1                          | English 2                           | English 3                          | English 4                            |
| <i>*Algebra 1H</i>                 | <i>*Algebra 2</i>                   | <i>*Pre-Calculus</i>               | <i>*Calculus</i>                     |
| <i>*Biology</i>                    | <i>*Chemistry</i>                   | <i>*Science</i>                    | <i>*Science</i>                      |
| Freshman Comm/Health (summer)      | World History (online or summer)    | US History (online or summer)      | American Gov/Econ (online or summer) |
| World Language 1                   | World Language 2                    | World Language 3 (recommended)     | World Language 4 (recommended)       |
| <i>*Intro to Engineering H</i>     | <i>*Principles of Engineering H</i> | <i>*EMP Elective</i>               | <i>*EMP Elective</i>                 |
| **PE Sport Class, Fine Art or SERP | **PE Sport Class, Fine Art or SERP  | **PE Sport Class, Fine Art or SERP | **PE Sport Class, Fine Art or SERP   |
|                                    | Geometry (summer)                   |                                    |                                      |

\*All *EMP courses* need to be taken in class

\*\*Extra fees required

\*\*\*Alternatively, freshmen who only qualify for Algebra 1 Honors may still enroll in EMP, but must be eligible for Algebra 2 or Algebra 2 H by the beginning of their sophomore year. Options included taking Geometry concurrently with Algebra 1 Honors or taking Geometry in summer school.



## JSERRA GRADUATION REQUIREMENTS

To graduate from JSerra Catholic High School, students must successfully complete a minimum of 270 credits. Successful completion of course work must include the following requirements with a semester grade of C or greater:

|                              |          |                      |
|------------------------------|----------|----------------------|
| Theology                     | 4 years  | 40 credits*          |
| English                      | 4 years  | 40 credits           |
| Mathematics                  | 3 years  | 30 credits           |
| Science                      | 3 years  | 30 credits           |
| Social Science               | 3 years  | 30 credits           |
| World Language*              | 2 years  | 20 credits           |
| Arts                         | 1 year   | 10 credits           |
| Health                       | 1/2 year | 5 credits            |
| Freshman Comm.               | 1/2 year | 5 credits*           |
| Physical Education           | 2 years  | 20 credits           |
| Electives                    |          | 40 credits*          |
| Credits required to graduate |          | <u>270</u> credits** |

\* Freshman Communications is not required for transfer students.

\* Previous Theology credits will be waived for transfer students coming from public schools.

\*International Students are exempt from world language requirements. However, green card holders still need to complete all graduation requirements.

\*Electives can be met by taking courses over the minimum requirements (i.e. taking a fourth year of science can count towards elective credits).

\*\*A Christian service component (80 hours) is required for graduation. Transfer students are required to do 10 hours per semester they attend JSerra.

All students must remediate any D's and/or F's in order to graduate from JSerra.

\*All *EMP courses* need to be taken in class

\*\*Extra fees required

\*\*\*Alternatively, freshmen who only qualify for Algebra 1 Honors may still enroll in EMP, but must be eligible for Algebra 2 or Algebra 2 H by the beginning of their sophomore year. Options included taking Geometry concurrently with Algebra 1 Honors or taking Geometry in summer school.