

WESTLAKE MULTIDISCIPLINARY STUDIES ENDORSEMENT

All endorsements require at least 26 credits, including:

ENGLISH LANGUAGE ARTS – 4 credits

English I
English II
English III
English IV

MATHEMATICS – 4 credits

Algebra I		Algebra I
Geometry	OR	Geometry
Algebra II		Math Models with Applications
Pre-Calculus or Statistics		Algebra II

SCIENCE – 4 credits

Biology		IPC* (<i>taken in middle school as elective credit only</i>)	Biology	
Chemistry	OR	Biology	OR	IPC
Physics		Chemistry		Chemistry
Advanced Science**		Physics		Physics
		Advanced Science**		

*IPC is Integrated Physics and Chemistry

**Advanced Science: AP Chemistry II, AP Physics 1/2, AP Physics II C, AP Biology II, Environmental Systems, AP Environmental Science, Earth and Space Science, Astronomy, Food Science, Chemistry III, Anatomy & Physiology, Advanced Biotechnology, Robotics 2, Robotics 3

SOCIAL STUDIES – 4 credits

World Geography
World History
U.S. History
Economics (0.5 credit/one semester) and Government (0.5 credit/one semester)

WORLD LANGUAGE – 2 credits (in same language)

ASL (Sign Language), Chinese, French, German, Latin, Spanish

P.E. – 1 credit (Athletics, Cheerleading, Dance, Marching Band, PE)

HEALTH – 0.5 credit (Health or Health Science)

FINE ARTS – 1 credit

Art, Band, Choir, Color Guard, Dance, Jazz Band, Orchestra, Technical Theatre, Theatre

ELECTIVES – 5.5 credits

The careful selection and completion of electives allows a student to earn an endorsement.
See back for details.

WESTLAKE MULTIDISCIPLINARY STUDIES ENDORSEMENT

1. Four credits in each of the four foundation areas
 - a. English – as identified on the back of this page
 - b. Math – as identified on the back of this page
 - c. Science – Biology, Chemistry, Physics and one Advanced Science course***
 - d. Social Studies – as identified in I.D.;
- AND** 2. Four Advanced courses – as indicated by ^;
(Advanced courses are listed in the WHS Course Description Guide)
- OR** 3. Four credits in Advanced Placement or Dual Credit selected from English, Math, Science, Social Studies, Languages Other Than English or Fine Arts

***(IPC may be counted as the Advanced Science course if it is taken prior to Chemistry and Physics. IPC will not count as the Advanced Science credit if the course is completed in middle school. Middle school IPC will earn an elective credit.)

WESTLAKE STEM ENDORSEMENT

Student must complete Algebra II, Chemistry, and Physics:

- AND** 1. A coherent sequence of courses for four or more credits in Career and Technical Education (CTE) that consists of at least two courses in the same career cluster including at least one advanced CTE course (indicated by ^). The final course in the sequence must be from the STEM cluster (indicated by *). Courses include:
- | | |
|---|--------------------------------------|
| Robotics I | Robotics Mentorship ^{^*} |
| Professional Communications [^] (0.5 credit) | Advanced Biotechnology ^{^*} |
| Electronics [^] | Robotics II ^{^*} |
| 3-D CAD (Eng. Design & Present.) [^] | Robotics III ^{^*} |
| Mentorship ^{^*} | |
- OR** 2. A coherent sequence of four credits in Computer Science selected from:
- | | |
|--|--|
| Computer Science Principles | Robotics I |
| Computer Science I | Robotics I with FTC Focus |
| AP Computer Science I [^] | Robotics II [^] |
| Computer Science II Advanced [^] | Robotics III [^] |
| Computer Science Independent Study I [^] | Engineering Design & Presentation [^] |
| Computer Science Independent Study II [^] | |
- OR** 3. Five credits in Mathematics
- Algebra I
 - Geometry
 - Algebra II
 - PreCalculus
- ONE of the following courses:
AP Calculus AB, AP Calculus BC, Multivariable Calculus, AP Statistics
- OR** 4. Five credits in Science
- Biology
 - Chemistry
 - Physics
- TWO of the following courses:
- | | |
|-------------------------|--------------------------|
| AP Chemistry II | AP Physics 1/2 |
| AP Physics II C | AP Biology II |
| Environmental Systems | AP Environmental Science |
| Earth and Space Science | Astronomy |
| Food Science | Chemistry III |
| Anatomy & Physiology | Advanced Biotechnology |
| Robotics 2 | Robotics 3 |

IPC can count as the 5th credit if it is taken before Chemistry and Physics (Note: IPC taken in middle school will not count toward this endorsement. It will be an elective credit)

WESTLAKE STEM ENDORSEMENT

All endorsements require at least 26 credits, including:

ENGLISH LANGUAGE ARTS – 4 credits

English I
English II
English III
English IV

MATHEMATICS – 4 credits

Algebra I		Algebra I
Geometry	OR	Geometry
Algebra II		Math Models with Applications
Pre-Calculus or Statistics		Algebra II

SCIENCE – 4 credits

Biology		IPC* (<i>taken in middle school as elective credit only</i>)		Biology
Chemistry	OR	Biology	OR	IPC
Physics		Chemistry		Chemistry
Advanced Science**		Physics		Physics
		Advanced Science**		

*IPC is Integrated Physics and Chemistry

**Advanced Science: AP Chemistry II, AP Physics 1/2, AP Physics II C, AP Biology II, Environmental Systems, AP Environmental Science, Earth and Space Science, Astronomy, Food Science, Chemistry III, Anatomy & Physiology, Advanced Biotechnology, Robotics 2, Robotics 3

SOCIAL STUDIES – 4 credits

World Geography
World History
U.S. History
Economics (0.5 credit/one semester) and Government (0.5 credit/one semester)

WORLD LANGUAGE – 2 credits (in same language)

ASL (Sign Language), Chinese, French, German, Latin, Spanish

P.E. – 1 credit (Athletics, Cheerleading, Dance, Marching Band, PE)

HEALTH – 0.5 credit (Health or Health Science)

FINE ARTS – 1 credit

Art, Band, Choir, Color Guard, Dance, Jazz Band, Orchestra, Technical Theatre, Theatre

ELECTIVES – 5.5 credits

The careful selection and completion of electives allows a student to earn an endorsement.
See back for details.

WESTLAKE ARTS AND HUMANITIES ENDORSEMENT

There are six ways to earn an Arts and Humanities endorsement.

1. Five Social Studies credits

World Geography World History US History Economics (0.5 credit) Government (0.5 credit)	PLUS one credit from the following: AP Comparative Government (0.5 credit) AP European History AP Human Geography AP Macroeconomics, as elective (0.5 credit) AP Microeconomics, as elective (0.5 credit) AP Psychology Teen Teaching II
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- OR** 2. Four levels of the same World Language:
German or French or Spanish or Latin or Chinese

- OR** 3. Two levels of a World Language and two levels of a different World Language:
German or French or Spanish or Latin or Chinese

- OR** 4. Four levels of American Sign Language

- OR** 5. A coherent sequence of four credits within a Fine Arts category or discipline:

Visual Arts	Dance	Band
Orchestra	Choir	Theatre Arts
Technical Theatre	Color Guard	Harp Ensemble

(Examples: Art-Electronic Media 1-4, Media 1-4 or Symphonic Orchestra 1-4)

- OR** 6. Seven credits in English

English I
English II
English III
English IV
PLUS three credits from the following:
Creative Writing I (0.5 credit)
Creative Writing II (0.5 credit)
Analysis of Visual Media (0.5 credit)
American West Literary Genres (0.5 credit)
Humanities (0.5 credit)
Research & Technical Writing
Independent Study in English
Professional Communications (0.5 credit)

WESTLAKE ARTS AND HUMANITIES ENDORSEMENT

All endorsements require at least 26 credits, including:

ENGLISH LANGUAGE ARTS – 4 credits

English I
English II
English III
English IV

MATHEMATICS – 4 credits

Algebra I		Algebra I
Geometry	OR	Geometry
Algebra II		Math Models with Applications
Pre-Calculus or Statistics		Algebra II

SCIENCE – 4 credits

Biology		IPC* <i>(taken in middle school as elective credit only)</i>	Biology
Chemistry	OR	Biology	IPC
Physics		Chemistry	Chemistry
Advanced Science**		Physics	Physics
		Advanced Science**	

*IPC is Integrated Physics and Chemistry

**Advanced Science: AP Chemistry II, AP Physics 1/2, AP Physics II C, AP Biology II, Environmental Systems, AP Environmental Science, Earth and Space Science, Astronomy, Food Science, Chemistry III, Anatomy & Physiology, Advanced Biotechnology, Robotics 2, Robotics 3

SOCIAL STUDIES – 4 credits

World Geography
World History
U.S. History
Economics (0.5 credit/one semester) and Government (0.5 credit/one semester)

WORLD LANGUAGE – 2 credits (in same language)

ASL (Sign Language), Chinese, French, German, Latin, Spanish

P.E. – 1 credit (Athletics, Cheerleading, Dance, Marching Band, PE)

HEALTH – 0.5 credit (Health or Health Science)

FINE ARTS – 1 credit

Art, Band, Choir, Color Guard, Dance, Jazz Band, Orchestra, Technical Theatre, Theatre

ELECTIVES – 5.5 credits

The careful selection and completion of electives allows a student to earn an endorsement. See back for details.

WESTLAKE PUBLIC SERVICES ENDORSEMENT

A coherent sequence of courses for four or more credits in CTE that consists of at least two courses in the same career cluster, including at least one advanced CTE course (indicated by ^). The final course in the sequence must be from one of these clusters- Education and Training, Human Services, or Health Science- and is indicated by *. Courses include:

1. Education and Training Cluster

Business Information Mgmt (BIM)	Career Preparation^
Lifetime Nutrition & Wellness (0.5 credit)	Mentorship^*
Prof. Communications^ (0.5 credit)	Ready, Set, Teach^
Child Development^	Ready, Set, Teach II^*
Instructional Practices^	

2. Human Services Cluster

Business Information Mgmt (BIM)	Fashion Design^
Touch System Data Entry (0.5 credit)	Interior Design^ (0.5 credit)
Principles of Human Services	Prof. Communications^ (0.5 credit)
Lifetime Nutrition & Wellness (0.5 credit)	Child Development^
Food Science^*	Career Preparation^
Mentorship^*	

3. Health Science Cluster

Principles of Health Science	Career Preparation^
Lifetime Nutrition & Wellness (0.5 credit)	Mentorship^*
Medical Terminology (0.5 credit)	Anatomy & Physiology^*
CERT- Disaster Response (0.5 credit)	Health Science Clinical^*
Prof. Communications^ (0.5 credit)	Practicum in Health Science^*

WESTLAKE PUBLIC SERVICES ENDORSEMENT

All endorsements require at least 26 credits, including:

ENGLISH LANGUAGE ARTS – 4 credits

English I
English II
English III
English IV

MATHEMATICS – 4 credits

Algebra I		Algebra I
Geometry	OR	Geometry
Algebra II		Math Models with Applications
Pre-Calculus or Statistics		Algebra II

SCIENCE – 4 credits

Biology		IPC* (<i>taken in middle school as elective credit only</i>)		Biology
Chemistry	OR	Biology	OR	IPC
Physics		Chemistry		Chemistry
Advanced Science**		Physics		Physics
		Advanced Science**		

*IPC is Integrated Physics and Chemistry

**Advanced Science: AP Chemistry II, AP Physics 1/2, AP Physics II C, AP Biology II, Environmental Systems, AP Environmental Science, Earth and Space Science, Astronomy, Food Science, Chemistry III, Anatomy & Physiology, Advanced Biotechnology, Robotics 2, Robotics 3

SOCIAL STUDIES – 4 credits

World Geography
World History
U.S. History
Economics (0.5 credit/one semester) and Government (0.5 credit/one semester)

WORLD LANGUAGE – 2 credits (in same language)

ASL (Sign Language), Chinese, French, German, Latin, Spanish

P.E. – 1 credit (Athletics, Cheerleading, Dance, Marching Band, PE)

HEALTH – 0.5 credit (Health or Health Science)

FINE ARTS – 1 credit

Art, Band, Choir, Color Guard, Dance, Jazz Band, Orchestra, Technical Theatre, Theatre

ELECTIVES – 5.5 credits

The careful selection and completion of electives allows a student to earn an endorsement.
See back for details.

WESTLAKE BUSINESS & INDUSTRY ENDORSEMENT

All endorsements require at least 26 credits, including:

ENGLISH LANGUAGE ARTS – 4 credits

English I
English II
English III
English IV

MATHEMATICS – 4 credits

Algebra I		Algebra I
Geometry	OR	Geometry
Algebra II		Math Models with Applications
Pre-Calculus or Statistics		Algebra II

SCIENCE – 4 credits

Biology		IPC* (<i>taken in middle school as elective credit only</i>)	Biology	
Chemistry	OR	Biology	OR	IPC
Physics		Chemistry		Chemistry
Advanced Science**		Physics		Physics
		Advanced Science**		

*IPC is Integrated Physics and Chemistry

**Advanced Science: AP Chemistry II, AP Physics 1/2, AP Physics II C, AP Biology II, Environmental Systems, AP Environmental Science, Earth and Space Science, Astronomy, Food Science, Chemistry III, Anatomy & Physiology, Advanced Biotechnology, Robotics 2, Robotics 3

SOCIAL STUDIES – 4 credits

World Geography
World History
U.S. History
Economics (0.5 credit/one semester) and Government (0.5 credit/one semester)

WORLD LANGUAGE – 2 credits (in same language)

ASL (Sign Language), Chinese, French, German, Latin, Spanish

P.E. – 1 credit (Athletics, Cheerleading, Dance, Marching Band, PE)

HEALTH – 0.5 credit (Health or Health Science)

FINE ARTS – 1 credit

Art, Band, Choir, Color Guard, Dance, Jazz Band, Orchestra, Technical Theatre, Theatre

ELECTIVES – 5.5 credits

The careful selection and completion of electives allows a student to earn an endorsement.
See back for details.

WESTLAKE BUSINESS & INDUSTRY ENDORSEMENT

1. A coherent sequence of courses for **four or more credits in CTE** that consists of at least two courses in the same career cluster, including at least one advanced CTE course^ (the final course must be from one identified with a *). Select from:
 - a. *Arts, A/V Technology, and Communications Cluster*

Business Information Mgmt (BIM)	Advanced Broadcast Prod.^
Digital Graphics and Animation	Advanced Film Production^
Digital Graphics and Animation II^	Career Preparation^
Fashion Design^	Broadcast Mentorship^*
Interior Design^ (0.5 credit)	Mentorship^*
Prof. Communications^ (0.5 credit)	Practicum Film Production^*
 - b. *Business Management and Administration Cluster*

Business Information Mgmt (BIM)	Prof. Communications^ (0.5 credit)
Touch System Data Entry (0.5 credit)	Business Law^ (0.5 credit)
Virtual Business (0.5 credit)	Career Preparation^
Practicum in Bus. Mgmt (0.5 credit)	Mentorship^*
 - c. *Finance Cluster*

Business Information Mgmt (BIM)	Accounting^
Touch System Data Entry (0.5 credit)	Career Preparation^
Prof. Communications^ (0.5 credit)	Mentorship^*
 - d. *Information Technology Cluster*

Business Information Mgmt (BIM)	Computer Science Principles^
Touch System Data Entry (0.5 credit)	Computer Science AP^
Computer Science	Advanced Computer Science^
Prof. Communications^ (0.5 credit)	Career Preparation^
Interactive Media^	Mentorship^*
Web Design^	
- OR** 2. Four English elective credits including three credits in one area:
 - Debate; or
 - Oral Interpretation; or
 - Yearbook; or
 - Newspaper
- OR** 3. Four CTE/technology applications credits selected from:

Film Production	Interactive Media
Broadcast Production	Advanced Film Portfolio^*
Advanced Film Production^	Practicum in Film Production^*
Advanced Broadcast Production^	Ind. Study in Film Production^*
Digital Graphics & Animation I	Mentorship in Broadcast^*
Digital Graphics & Animation II*^	Mentorship^*
Web Design^	