

CATE Technology Education Recommended Plan

Discipline	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math Elective
Social Studies 3.5 Credits Economics .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1[*], ^{**}	Chemistry	Science Elective
Languages other than English 2 credits	LOTE 1	LOTE 2		
Physical Education 1.5 Credits Health Education .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit	Technology Systems ^{***}	Fine Arts	Communication Applications (.5)	
Speech .5 credit Fine Arts 1 Credit Elective Courses 3.5 credits				
Credits per Year	__ credits	__credits	__credits	__credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)

**CATE Technology Education
Recommended Plan
Architectural / Construction Careers**

Discipline	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math Elective
Social Studies Economics 3.5 Credits .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1*,**	Chemistry	Science Elective
Languages other than English 2 credits	LOTE 1	LOTE 2		
Physical Education Health Education 1.5 Credits .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit Speech .5 credit Fine Arts 1 Credit Elective Courses 3.5 credits	Technology Systems ***		Communications Applications (.5)	Fine Arts
		Construction Systems	Architectural Construction Electricity / Electronics Technology*	Research, Design and Development
24 Credits per Year	7 credits	7 credits	6.5 credits	6 credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)

CATE Technology Education Recommended Plan

Arts, Audio, Video Technology and Communications Careers

Discipline	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math Elective
Social Studies Economics 3.5 Credits .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1*,**	Chemistry	Science Elective
Languages other than English 2 credits	LOTE 1		LOTE 2	
Physical Education Health Education 1.5 Credits .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit Speech .5 credit Fine Arts Elective Courses 3.5 credits	Technology Systems ***	Fine Arts	Communication Applications (.5)	
		Communication Systems	Communication Graphics ***	Electricity / Electronics Technology* Computer Multimedia and Animation Technology*, ***
Credits per Year	7 credits	7 credits	6.5 credits	6 credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)

CATE Technology Education Recommended Plan Computer Aided Design and Drafting

Discipline	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math Elective
Social Studies 3.5 Credits Economics .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1*,**	Chemistry	Science Elective
Languages other than English 2 credits			LOTE 1	LOTE 2
Physical Education 1.5 Credits Health Education .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit Speech .5 credit Fine Arts 1 Credit Elective Courses 3.5 credits	Technology Systems ***	Fine Arts	Communications Applications (.5)	
		Communication Graphics ***	Architectural Graphics	Engineering Graphics Research, Design and Development
Credits per Year	6 credits	7 credits	6.5 credits	7 credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)

CATE Technology Education Recommended Plan Electrical Engineering Careers

Discipline	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math elective
Social Studies 3.5 Credits Economics .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1*,**	Chemistry	Science Elective
Languages other than English 2 credits	LOTE 1		LOTE 2	
Physical Education 1.5 Credits Health Education .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit Speech .5 credit Fine Arts 1 Credit Elective Courses 3.5 credits	Technology Systems ***	Fine Arts	Communications Applications (.5)	
		Energy, Power and Transportation Systems	Electricity / Electronics Technology*	Problems and Solutions in Technology
Credits per Year	7 credits	7 credits	6.5 credits	5 credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)

CATE Technology Education Recommended Plan Manufacturing Careers

Discipline	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math Elective
Social Studies 3.5 Credits Economics .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1*,**	Chemistry	Science Elective
Languages other than English 2 credits	LOTE 1		LOTE 2	
Physical Education 1.5 Credits Health Education .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit Speech .5 credit Fine Arts 1 Credit Elective Courses 3.5 credits	Technology Systems ***	Fine Arts	Communication Applications (.5)	
		Manufacturing Systems	Manufacturing Technology	Engineering Graphics Problems and Solutions in Technology
Credits per Year	7 credits	7 credits	6.5 credits	6 credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)

CATE Technology Education Recommended Plan Project Lead the Way Sequence

Discipline required credits	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math Elective
Social Studies Economics 3.5 Credits .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1*,**	Chemistry	Science Elective
Languages other than English 2 credits	LOTE 1		LOTE 2	
Physical Education Health Education 1.5 Credits .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit		Fine Arts		Communications Applications (.5)
Speech 1 credit			Electricity / Electronics*	Research, Design and Development
Fine Arts Elective Courses 1 Credit 3.5 credits	Engineering Graphics	Engineering Principles	Computer Applications*, **, ***	Problems and Solutions in Technology
Credits per Year	7 credits	7 credits	7 credits	6.5 credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)

CATE Technology Education Recommended Plan

Scientific Research, Engineering and Technical Service Careers

Discipline	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math Elective
Social Studies 3.5 Credits Economics .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1*,**	Chemistry	Science Elective
Languages other than English 2 credits	LOTE 1		LOTE 2	
Physical Education 1.5 Credits Health Education .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit Speech .5 credit Fine Arts 1 Credit Elective Courses 3.5 credits	Engineering Principles	Fine Arts	Communication Applications (.5)	
		Engineering Graphics	Computer Applications *, **, ***	Electricity / Electronics Technology* Research, Design and Development
Credits per Year	7 credits	7 credits	6.5 credits	6 credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)

**CATE Technology Education
Recommended Plan
Computer Systems Analyst**

Discipline	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math Elective
Social Studies 3.5 Credits Economics .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1^{*,**}	Chemistry	Science Elective
Languages other than English 2 credits	LOTE 1		LOTE 2	
Physical Education 1.5 Credits Health Education .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit Speech .5 credit Fine Arts 1 Credit Elective Courses 3.5 credits	Technology Systems ***	Fine Arts	Communications Applications (.5)	
		Communication Graphics ***	Computer Applications^{*,**} ***	Computer Multimedia and Animation Technology^{*,**} *** Electricity / Electronics Technology*
Credits per Year	7 credits	7 credits	6.5 credits	6 credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)

**CATE Technology Education
Recommended Plan
Teacher, Secondary Technology Education**

Discipline	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math Elective
Social Studies Economics 3.5 Credits .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1*, **	Chemistry	Science Elective
Languages other than English 2 credits	LOTE 1		LOTE 2	
Physical Education Health Education 1.5 Credits .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit Speech .5 credit Fine Arts 1 Credit Elective Courses 3.5 credits	Technology Systems ***	Fine Arts	Communication Applications (.5)	
		Energy, Power, and Transportation Systems	Engineering Graphics Architectural Graphics	Manufacturing Systems Communication Systems Computer Multimedia and Animation Technology* , ***
Credits per Year	7 credits	7 credits	7.5 credits	7 credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)

CATE Technology Education Recommended Plan Tech Prep

Discipline	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math Elective
Social Studies 3.5 Credits Economics .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1*,**	Chemistry	Science Elective
Languages other than English 2 credits	LOTE 1		LOTE 2	
Physical Education 1.5 Credits Health Education .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit Speech .5 credit Fine Arts 1 Credit Elective Courses 3.5 credits	Technology Systems ***	Fine Arts	Communication Applications (.5)	
		Computer Applications*, **, ***	Computer Multimedia and Animation Technology*, ***	Electricity / Electronics Technology* Problems and Solutions in Technology
Credits per Year	7 credits	7 credits	6.5 credits	6 credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)

**CATE Technology Education
Recommended Plan
Transportation, Distribution and Logistics Services**

Discipline	9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts / Reading 4 credits	English 1	English 2	English 3	English 4
Mathematics 3 credits	Algebra 1	Geometry	Algebra 2	Math Elective
Social Studies Economics 3.5 Credits .5 credits	World Geography	World History	U.S. History	Government (.5) Economics (.5)
Science 3 credits	Biology	Principles of Technology 1*,**	Chemistry	Science Elective
Languages other than English 2 credits	LOTE 1		LOTE 2	
Physical Education Health Education 1.5 Credits .5 credits	Health (.5) PE (.5)	PE		
Technology Applications 1 Credit	Technology Systems ***	Fine Arts	Communication Applications (.5)	
Speech .5 credit		Energy, Power and Transportation Technology	Manufacturing Systems	Manufacturing Technology
Fine Arts 1 Credit				Problems and Solutions in Technology
Elective Courses 3.5 credits				
Credits per Year	7 credits	7 credits	6.5 credits	6 credits

*Eligible for statewide-articulated credit if taken at the junior or senior level and with a grade of 80 (3.0) or higher.

**Satisfies requirement for a DAP advanced measure with a grade of 3.0 or higher.

***Satisfies requirement for Technology Applications credit if taught in a Modular Computer Laboratory-Based environment (85% rule applies)