

# Mansfield High School

## Scheduling Guide



*2021-2022*

### Our Mission

Mansfield High School Serves to ensure the academic success, develop the character, and celebrate the graduation of all students.

**Mansfield High School**

401 Kings Highway  
Mansfield, LA 71052  
Phone 318/872-0793  
Fax 318/872-2223

July 1, 2021

Dear Wolverine Nation:

As part of the DeSoto Parish School System, Mansfield High School serves to care for our students, ensure their learning, and celebrate their graduation as citizens prepared to transform their dreams into realities.

The State of Louisiana has provided students with two diploma pathways that lead to a high school diploma. MHS is prepared to offer several academic and career avenues to meet the State requirements. In addition to coursework to meet State requirements, MHS offers opportunities for academic credentials and industry based certifications that allow for students to graduate from high school with a high school diploma and portable credentials that can assist with meeting post-secondary goals.

MHS provides extra-curricular opportunities to our students to enhance their high school experience. Just as we expect excellence in the classroom to lead to academic success for our students, our extra-curricular programs also contribute to the accomplishments of our students. The entire Mansfield community can bear witness to the achievements of our extra-curricular programs.

Please review the academic and extra-curricular options that are available to our Wolverines as they work toward their goals of graduating from Mansfield High School and entering their adult lives as citizens prepared to meet their life goals. Please feel free to refer to our school's website at <http://mhs.desotopsb.com/> for additional information about Mansfield High School.

We look forward to working with our Wolverines this year.

MHS serves to ensure the academic success, develop the character, and celebrate the graduation of all students – It is a great time to be a Wolverine!

Sincerely,

The Faculty and Staff of Mansfield High School

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# DIPLOMA PATHWAYS

## Jump Start TOPS Tech and TOPS University

During the first two years of high school, students should focus on building on the knowledge and skills they gained in previous grades. Every 9th and 10th grade student will take core academic classes to work toward a diploma. At the completion of the 10th grade year, a student may choose to work toward a **Jump Start TOPS Tech Pathway (TOPS 2)** or pursue the **TOPS University Pathway (TOPS 4)**. Students may choose both pathways. Decisions are made with counseling and guidance based on the student's interests, capabilities, and ambitions.

Louisiana's 9th and 10th grade students take common foundational coursework, irrespective of the diploma pathway they ultimately select. Each student will be required to complete two units each of English, math, science, social studies, and health/physical education.

All students must take the corresponding LEAP 2025 test for any course that has one. All Louisiana students must take a high-school level English and math test regardless of courses taken or graduation pathway, by their third year of high school (See LEAP 2025 under **Testing Descriptions**).

Student pathways should connect with real outcomes after high school – for both college-bound students and career-bound students.

The **TOPS 4 Pathway** ensures students going to four-year colleges have taken a true college preparatory curriculum while in high school and have every chance possible to receive TOPS. Students who complete a **TOPS 2 Pathway** will have attained an industry credential and also be prepared to continue postsecondary opportunities.

Students on the **TOPS 4 Pathway** are rewarded for completing more rigorous AP®, IB®, and dual enrollment courses because these courses receive additional weight in the calculation of the TOPS GPA. The TOPS GPA determines not only a student's eligibility for the TOPS award but also determines if the student is qualified to receive additional financial support during college. Students who receive TOPS tend to graduate from college; students who attend a four-year university but do not achieve TOPS tend to end up with no diploma and a great deal of debt.

**TOPS 2 (JumpStart)** is the state's new graduation pathway for Louisiana's students. Postsecondary institutions, business, and industry will form partnerships with LEAs to work collaboratively in providing career courses and workplace experiences for high school students. The Jump Start vision: students of all interests and capabilities will graduate high school by earning credentials that provide new opportunities for a successful adulthood for all students. State-of-the-art career and technical education facilities, equipment, and instruction will be the elements of Jump Start success. Students completing a statewide or regional Jump Start pathway will also be prepared to continue their postsecondary education and training utilizing a TOPS Tech scholarship.

(Excerpts from the *Student Planning Guidebook* available from the Louisiana Department of Education at [http://www.louisianabelieves.com/docs/default-source/course-choice/2014-high-school-planning-guidebook-\(web\).pdf?sfvrsn=4](http://www.louisianabelieves.com/docs/default-source/course-choice/2014-high-school-planning-guidebook-(web).pdf?sfvrsn=4))



# Graduation Requirements for Entering Freshmen 2014-2015 and Beyond

(underlined courses are pending notice of intent)

SUBJECTS	TOPS UNIVERSITY DIPLOMA		CAREER DIPLOMA	
	# Units	Courses	# Units	Courses
English	1	<b>One of the following:</b> English I, English Language Part 1: Cambridge IGCSE, or English Literature Part 1: Cambridge IGCSE	1	<b>One of the following:</b> English I, English Language Part 1: Cambridge IGCSE, or English Literature Part 1: Cambridge IGCSE
	1	<b>One of the following:</b> English II, English Language Part 2: Cambridge IGCSE, or English Literature Part 2: Cambridge IGCSE	1	<b>One of the following:</b> English II, English Language Part 2: Cambridge IGCSE, or English Literature Part 2: Cambridge IGCSE
	1	<b>One of the following:</b> English III, AP English Language Arts and Composition, IB Literature, IB Language and Literature, IB Literature and Performance, English Language Part 1: Cambridge AICE–AS (Honors), or Literature in English Part 1: Cambridge AICE–AS (Honors)	2	<b>The remaining units shall come from the following:</b> Technical Writing, Business English, English III, English IV, any AP or IB English course, any Cambridge AICE–AS course, or comparable Louisiana technical college courses offered by Jump Start regional teams as approved by BESE
	1	<b>One of the following:</b> English IV, AP English Literature and Composition, IB Literature, IB Language and Literature, IB Literature and Performance, English Language Part 2: Cambridge AICE–AS (Honors), or Literature in English Part 2: Cambridge AICE–AS (Honors)		
<b>NOTE:</b> If a student chooses to take the A level Cambridge course, the second unit will count as an elective credit.				
Mathematics	1	Algebra I	1	Algebra I, Applied Algebra I, or Algebra I-Part 2 (The elective course Algebra I-Part 1 is a prerequisite.)
	1	Geometry	3	<b>The remaining units shall come from the following:</b> Geometry, Financial Literacy (formerly Financial Math), Math Essentials, Algebra II, Advanced Math-Functions and Statistics, Advanced Math–Pre-Calculus, Algebra III, Pre-Calculus, Business Math, Probability and Statistics, Statistical Reasoning, Additional Math: Cambridge IGCSE, Math 1 (Pure Math): Cambridge AICE–AS (Honors), Transition to College Mathematics, or comparable Louisiana technical college courses offered by Jump Start regional teams as approved by BESE
	1	Algebra II		
	1	<b>One of the following:</b> Algebra III, Advanced Math–Functions and Statistics, Advanced Math–Pre-Calculus, Pre-Calculus, IB Math Studies (Math Methods), Calculus, AP Calculus AB, IB Mathematics SL, AP Calculus BC, AP Statistics, IB Further Mathematics HL, IB Mathematics HL, Probability and Statistics, AP Computer Science A, Statistical Reasoning, Additional Math–Cambridge IGCSE, Math 1 (Probability and Statistics): Cambridge AICE (Honors), Math 1 (Pure Math): Cambridge AICE–AS (Honors), Math 2 (Part 1): Cambridge AICE–A Level (Honors), or Math 2 (Part 2): Cambridge AICE–A Level (Honors)		
<b>NOTE:</b> The Integrated Mathematics I, II, and III sequence, including the Cambridge IGCSE Integrated Math sequence, may be substituted for the Algebra I, Geometry, and Algebra II sequence.				
Science	1	Biology I	1	Biology I
	1	Chemistry I	1	<b>One of the following:</b> Chemistry I, Physical Science, Earth Science, Agriscience II*, Environmental Science, PLTW Principles of Engineering, any AP or IB science course, Physics I: Cambridge IGCSE, Biology II: Cambridge AICE–AS (Honors), Chemistry II: AICE–AS (Honors), or Physics II: Cambridge AICE–AS (Honors)
	2	<b>Two units chosen from the following:</b> (a) Earth Science; (b) <b>one of</b> Environmental Science, Environmental Awareness; (c) <b>one of</b> Physical Science, Principles of Engineering, Principles of Engineering (LSU Partnership), or PLTW Principles of Engineering; (d) Agriscience II*; (e) <b>one of</b> Chemistry II, AP Chemistry, IB Chemistry I, IB Chemistry II, or Chemistry II: Cambridge AICE–AS (Honors); (f) <b>one of</b> AP Environmental Science, IB Environmental Systems; (g) <b>one of</b> Physics I, IB Physics I, AP Physics I, or Physics I: Cambridge IGCSE; (h) <b>one of</b> AP Physics C: Electricity and Magnetism, AP Physics C: Mechanics, IB Physics II, AP Physics II, or Physics II: Cambridge AICE–AS (Honors); (i) <b>one of</b> Biology II, AP Biology, IB Biology I, IB Biology II, Biology II: Cambridge AICE–AS (Honors), or Human Anatomy and Physiology	<b>*The elective course Agriscience I is a prerequisite for Agriscience II.</b>	
Social Studies	1	<b>One of the following:</b> U.S. History, AP U.S. History, or IB History of the Americas I	1	<b>One of the following:</b> U.S. History, AP U.S. History, or IB History of the Americas I
	1	<b>One of the following:</b> Civics, American Government, AP U.S. Government and Politics: Comparative, or AP U.S. Government and Politics: United States	1	<b>One of the following:</b> Civics, American Government, AP U.S. Government and Politics: Comparative, or AP U.S. Government and Politics: United States
	2	<b>Two units chosen from the following:</b> (a) <b>one of</b> European History, AP European History, Western Civilization, or History (European): Cambridge AICE–AS (Honors); (b) <b>one of</b> World Geography, AP Human Geography, IB Geography, Physical Geography, or Geography: Cambridge AICE–AS (Honors); (c) <b>one of</b> World History, AP World History, IB History of the Americas II, or History (International): Cambridge AICE–AS (Honors); (d) History of Religion; (e) <b>one of</b> IB Economics, Economics, AP Macroeconomics, AP Microeconomics, or Economics: Cambridge AICE–AS (Honors); or (f) AP Psychology		
Health and Physical Education	0.5	Health Education	0.5	Health Education
	1.5	Physical Education I and II; Adapted Physical Education I and II for eligible students in special education; JROTC I, II, III, or IV; or Physical Education I (1 unit) and 1/2 unit of Marching Band, extracurricular sports, Cheerleading, or Dance Team	1.5	Physical Education I and one half unit from among the following: Physical Education II, Marching Band, extracurricular sports, Cheerleading, Dance Team Adapted PE for eligible students or JROTC or may be substituted
<b>NOTE:</b> JROTC I and II may be used to meet the health education requirement. Refer to §2347.				
Foreign Language	2	Two units from the same language (§2345)		
Art	1	Art (§2333), Music (§2355), Dance (§2337), Theatre (§2369), Speech III and IV (one unit combined), Fine Arts Survey, Drafting, Media Arts (§2354), Photography I/II, Digital Photography, or Digital Design (§2338)		
Electives/Jump Start	3	Electives	9	Jump Start course sequence, workplace experiences, and approved credentials (a minimum of one industry-based credential is required for graduation)
Total Units	24		23	

Refer to Bulletin 741 for a comprehensive list of approved courses and the most current graduation requirements.

REVISED SEPTEMBER 4, 2019



# TOPS Tech Core Curriculum

For the TOPS Tech Award – JumpStart Curriculum

**For High School graduates of 2018 and thereafter**

Students may also qualify for the TOPS Tech Award by completing the TOPS Core Curriculum for the Opportunity, Performance and Honors Awards

Units	Courses
1 Unit	English I
1 Unit	English II
2 Units	English III, English IV, AP or IB English courses, Business English, Technical Writing, or comparable Louisiana Technical College courses offered by Jump Start regional teams as approved by the State Board of Elementary and Secondary Education.
1 Unit	Algebra I; or both Algebra I, Part 1 and Algebra I, Part 2; or an applied or hybrid algebra course
3 Units	Geometry, Algebra II, Math Essentials, Financial Literacy, Business Math, Algebra III, Advanced Math -Functions and Statistics, Advanced Math - Pre-Calculus, Pre-calculus, or comparable Louisiana Technical College courses offered by Jump Start regional teams as approved by the State Board of Elementary and Secondary Education. Integrated Mathematics I, II, and III may be substituted for Algebra I, Geometry, and Algebra II, and shall equal three mathematics credits
1 Unit	Biology
1 Unit	Chemistry I, Earth Science, Environmental Science, Agriscience I and Agriscience II (both for one unit), Physical Science, Physics, or AP or IB science courses
1 Unit	U.S. History, AP U.S. History, or IB U.S. History
1 Unit	Civics, Government, AP U.S. Government and Politics: Comparative, or AP U.S. Government and Politics: United States
9 Units	In Jump Start course sequences, workplace experiences, and credentials. A student shall complete a regionally designed series of Career and Technical Education Jump Start coursework and workplace-based learning experiences leading to a statewide or regional Jump Start credential. This shall include courses and workplace experiences specific to the credential, courses related to foundational career skills requirements in Jump Start, and other courses, including career electives, that the Jump Start regional team determines are appropriate for the career major.
<b>TOTAL: 21 units</b>	



*This core curriculum is accurate as of the date of publication and includes courses listed in TOPS statute and those determined to be equivalent by the La. Board of Regents and BESE.*

Louisiana Office of Student Financial Assistance

A program of The Board of Regents

(800) 259-5626

custserv@la.gov      www.osfa.la.gov

P.O. Box 91202, Baton Rouge, LA 70821-9202 Updated: 10/01/2018





# TOPS Core Curriculum

For the Opportunity, Performance and Honors Awards  
For High School graduates of 2018 and thereafter

Units	Courses <sup>1</sup>
<b>ENGLISH = 4 Units</b>	
1 Unit	English I
1 Unit	English II
1 Unit from the following:	English III, AP English Language Arts and Composition, or IB English III (Language A or Literature and Performance)
1 Unit from the following:	English IV, AP English Literature and Composition, or IB English IV (Language A or Literature and Performance)
<b>MATH = 4 Units</b>	
1 Unit	Algebra I
1 Unit	Geometry
1 Unit	Algebra II
	Integrated Mathematics I, Integrated Mathematics II, and Integrated Mathematics III may be substituted for the Algebra I, Geometry, and Algebra II sequence
1 Unit from the following:	Algebra III; Advanced Math - Functions and Statistics, Advanced Math - Pre-Calculus, Pre-Calculus, or IB Math Methods I (Mathematical Studies SL); Calculus, AP Calculus AB, or IB Math Methods II (Mathematics SL); AP Calculus BC; Probability and Statistics or AP Statistics; IB Further Mathematics HL; IB Mathematics HL; AP Computer Science A
<b>SCIENCE = 4 Units</b>	
1 Unit	Biology I
1 Unit	Chemistry I
2 Units from the following:	Earth Science; Environmental Science; Physical Science; Agriscience I and Agriscience II (one unit combined); Chemistry II or AP Chemistry or IB Chemistry II; AP Environmental Science or IB Environmental Systems; Physics I, AP Physics I, AP Physics B, or IB Physics I; AP Physics C: Electricity and Magnetism, AP Physics C: Mechanics, or IB Physics II, or AP Physics II; Biology II or AP Biology or IB Biology II or Human Anatomy and Physiology
<b>SOCIAL STUDIES = 4 Units</b>	
1 Unit from the following:	U.S. History, AP U.S. History, or IB U.S. History
1 Unit from the following:	Civics, Government, AP U.S. Government and Politics: Comparative, or AP U.S. Government and Politics: United States
2 Units from the following:	Western Civilization, European History, or AP European History; World Geography, AP Human Geography, or IB Geography; World History, AP World History, or IB World History; History of Religion; IB Economics, Economics, AP Macroeconomics, AP Microeconomics or AP Psychology
<b>FOREIGN LANGUAGE = 2 Units</b>	
	Foreign Language, both units in the same language, which may also include the following AP and IB courses: AP Chinese Language and Culture, AP French Language and Culture, AP German Language and Culture, AP Italian Language and Culture, AP Japanese Language and Culture, AP Latin, AP Spanish Language and Culture, IB French IV, IB French V, IB Spanish IV, IB Spanish V, Mandarin Chinese I-IV, Hindi I – IV, Portuguese I-IV, Vietnamese I-IV
<b>ART = 1 Unit</b>	
1 Unit from the following:	Performance course in Music, Dance or Theatre; Fine Arts Survey; Art I, II, III, and IV; Talented Art I, II, III, and IV; Talented Music I, II, III and IV; Talented Theater Arts I, II, III, and IV; Speech III and Speech IV (one unit combined); AP Art History; AP Studio Art: 2-D Design; AP Studio Art: 3-D Design; AP Studio Art: Drawing; AP Music Theory; IB Film Study I; IB Film Study II; IB Music I; IB Music II; IB Art Design III; IB Art Design IV; IB Theatre I, Drafting, Media Arts I – IV; Photography I, Photography II, or Digital Photography
<b>TOTAL = 19 Units</b>	
<i>Please see reverse side for core (substitute) equivalents to the TOPS Core Curriculum</i>	

Core Curriculum Course(s)	Recently Approved Equivalent (Substitute) Course(s)
Art	Digital Image & Motion Graphics, Digital Storytelling, Engineering Design & Development, Sound Design
Environmental Science	Environmental Awareness
World Geography	Physical Geography
Probability & Statistics	Statistical Reasoning
Physical Science	Principles of Engineering

<sup>1</sup> **GIFTED COURSES:** Any core curriculum course that is taken by a student who has been identified as gifted pursuant to State Board of Elementary and Secondary Education (BESE) policy and that is taken in fulfillment of the student's Individualized Education Plan shall be considered a "Gifted Course" and shall fulfill the core curriculum.

Beginning with students entering the 9<sup>th</sup> grade in 2014-2015 and graduating in the 2017-2018 school year and thereafter, the calculation of the TOPS Core Curriculum grade point average (GPA) will use a five- (5.00) point scale for grades earned in certain designated Advanced Placement (AP) courses; International Baccalaureate (IB) courses; Gifted courses; Dual Enrollment courses, Honors courses and Articulated courses offered for college credit by the Louisiana School for the Math, Science and the Arts used to complete the TOPS Core Curriculum. The courses currently designated to be calculated on the 5.00 point scale can be viewed at <https://www.osfa.la.gov/5scale>. For the designated courses, five quality points will be assigned to a letter grade of "A", four quality points will be assigned to a letter grade of "B", three quality points will be assigned to a letter grade of "C", two quality points will be assigned to a letter grade of "D", and zero quality points will be assigned to a letter grade of "F". Note that students earning credit in courses graded on the five (5.00) point scale may earn a grade point average on the TOPS Core Curriculum that exceeds 4.00.



*This core curriculum is accurate as of the date of publication and includes courses listed in TOPS statute.*

Louisiana Office of Student Financial Assistance (LOSFA)  
A program of the Board of Regents  
P.O. Box 91202, Baton Rouge, LA 70821-9202  
(800) 259-5626  
[custserv@la.gov](mailto:custserv@la.gov)  
[www.osfa.la.gov](http://www.osfa.la.gov)



Updated: 02/06/2019

# TOPS AWARDS

**TOPS** (Taylor Opportunity Program for Students) is a program of state scholarships for Louisiana residents who attend either one of the Louisiana Public Colleges and Universities, schools that are a part of the Louisiana Community and Technical College System, Louisiana approved Proprietary and Cosmetology Schools or institutions that are a part of the Louisiana Association of Independent Colleges and Universities.

The four different award components of the TOPS Program are:

- **TOPS Opportunity Award**
- **TOPS Performance Award**
- **TOPS Honors Award**
- **TOPS Tech Award**

## **The TOPS Opportunity Award (TOPS 4)**

The TOPS Opportunity Award pays the TOPS Award Amount set by the administering agency for a student at a particular institution during the 2016-2017 academic year unless increased by Act of the Legislature. If a student attends a college within the [Louisiana Association of Independent Colleges and Universities](#), the award amount will be the weighted average award amount that was set for public colleges and universities during the 2016-2017 academic year.

### Standard Eligibility Requirements

- Minimum High School GPA of 2.50 (GPA computed on core courses only)
- 19.0 Core Units
- Minimum ACT Score ([or SAT Equivalent](#)) of the prior year state average; Currently 20
- Must enroll full time as a first time freshman, by the first semester following the first anniversary of high school graduation
- Be a US citizen or permanent resident
- Meet TOPS Louisiana residency requirements

## **The TOPS Performance Award (TOPS 4)**

The TOPS Performance Award pays the TOPS Award Amount set by the administering agency for a student at a particular institution during the 2016-2017 academic year unless increased by Act of the Legislature plus an annual stipend of \$400. If a student attends a college within the [Louisiana Association of Independent Colleges and Universities](#), the award amount will be the weighted average award amount that was set for public colleges and universities during the 2016-2017 academic year plus an annual stipend of \$400.

### Standard Eligibility Requirements

- Minimum High School GPA of 3.00 (GPA computed on core courses only)
- 19.0 Core Units
- Minimum ACT Score ([or SAT Equivalent](#)) of 23
- Must enroll full time as a first time freshman, by the first semester following the first anniversary of high school graduation
- Be a US citizen or permanent resident
- Meet TOPS Louisiana Residency requirements

## **The TOPS Honors Award (TOPS 4)**

The TOPS Honors Award pays the TOPS Award Amount set by the administering agency for a student at a particular institution during the 2016-2017 academic year unless increased by Act of the Legislature plus an annual stipend of \$800. If a student attends a college within the [Louisiana Association of Independent Colleges and Universities](#), the award amount will be the weighted average award amount that was set for public colleges and universities during the 2016-2017 academic year plus an annual stipend of \$800.

### Standard Eligibility Requirements

- Minimum High School GPA of 3.00 (GPA computed on core courses only)
- 19.0 Core Units
- Minimum ACT Score ([or SAT Equivalent](#)) of 27
- Must enroll full time as a first time freshman, by the first semester following the first anniversary of high school graduation
- Be a US citizen or permanent resident
- Meet TOPS Louisiana Residency requirements

### **The TOPS Tech Award (TOPS 2)**

TOPS Tech Award amounts differ by type of school attended:

- In a technical program at a public college or university: the Award Amount set by the administering agency for a student at that school during the 2016-2017 academic year;
- In an associate's degree program/shorter term training and education program at a 2 year public college or university: the Award Amount set by the administering agency for a student at that school during the 2016-2017 academic year;
- In an approved program at a four year public college or university that does not offer a baccalaureate degree in the approved program: the Award Amount set by the administering agency for a student at that school during the 2016-2017 academic year;
- In an approved program at a four year public college or university that does offer a baccalaureate degree in the approved program AND at approved proprietary and cosmetology schools: the average of the TOPS Award Amount for students enrolled in technical programs of study in public colleges and universities during the 2016-2017 academic year.

#### Standard Eligibility Requirements

- Minimum High School GPA of 2.50 (GPA computed on core courses only)
- 21 units that comprise the TOPS Tech JumpStart Core Curriculum
- Students may also qualify for the TOPS Tech Award by completing the TOPS Core Curriculum for the Opportunity, Performance and Honors Awards
- Minimum ACT Score ([or SAT Equivalent](#)) of 17
- Must enroll full time as a first time freshman, by the first semester following the first anniversary of high school graduation
- Be a US citizen or permanent resident
- Meet TOPS Louisiana Residency requirements

(Information from the *Louisiana Office of Student Financial Assistance* at <https://www.osfa.la.gov/>)

# Mansfield High School

## School of Business

### Pathway

Information Technology

### Certifications

CIW Foundations

Microsoft Office Specialist (Excel, PowerPoint, Word)

### Interests and Opportunities

Future Business Leaders of America (FBLA)

## School of Health and Science

### Pathway

Biomedical Sciences incorporated into TOPS 2 or TOPS 4

Health Sciences: CNA

Health Sciences: EMR

### Certifications

Certified Nurse Aide

Emergency Medical Responder

Basic Life Support/CPR

### Interests and Opportunities

Baseball

Basketball (Men JV & V)

Basketball (Women JV & V)

Cheerleading

Football (JV & V)

Science Club

Softball

Track

Volleyball (JV & V)

## School of Family and Consumer Science

### Pathway

Hospitality and Tourism

### Certifications

Customer Service

Hospitality and Tourism Management

ProStart

ServSafe

### Interests and Opportunities

Family, Career and Community Leaders of America (FCCLA)

## School of Leadership and Military Science

### Pathway

JROTC incorporated into TOPS 2 or TOPS 4

Interests and Opportunities

Drill Team

Color Guard

Testing

Armed Services Vocational Aptitude Battery

### **School of Manufacturing**

Pathways

Manufacturing: C4M

Manufacturing: Pre-Engineering

Manufacturing: Welding

Certifications

C4M

NCCER Core

NCCER Welding Level I

OSHA 10

Interests and Opportunities

Future Farmers of America (FFA)

### **School of Post-Secondary General Preparation**

Pathway

TOPS 4 General Studies and General Studies with Advanced Placement

Interests and Opportunities

Band and Band Auxiliaries

Beta

Choir

Jobs for America's Graduates (JAG)

Louisiana Teenage Librarians Associations (LTLA)

National Honor Society

Poetry Club

Student Council

Testing

ACT

Advanced Placement

CLEP

State Required Course Assessments: LEAP 2025, LEAP Connect

WorkKeys



## Information Technology (Suggested Course Progression)

### TOPS 2 JumpStart Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health IBCA Agriscience I or JAG I or Quest for Success
<b>11<sup>th</sup> Grade</b> English III Business Math CIW IBA CIW Net Tech or Site Dev Career Elective Career Elective General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV CIW Net Tech or Site Dev Career Elective Career Elective ACT Prep General Elective General Elective General Elective

### TOPS 4 University Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health CIW IBA General Elective
<b>11<sup>th</sup> Grade</b> English III Geometry Chemistry Spanish I Spanish II CIW Net Tech or Site Dev General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV Advanced Math World Geography World History Arts ACT Prep CIW Net Tech or Site Dev General Elective

Electives: General Electives and Career Electives. Career Electives (CE) can be used as General Electives; Pathway Specific Career Elective (PSCE)								
ACT Prep (GE)	Arts: Band, Choir, Fine Arts Survey	C N A (PSCE)	EMR: First Responder (CE)	Food Services I, II (PSCE)	Intro to Eng Design (PSCE)	Math Essentials	Prin of Eng (PSCE)	Technical Writing (CE)
Adv Math	Automation in Ag (PSCE)	Chemistry I, II (GE)	Env Sci	Geometry	JAG (CE)	Med Interventions (PSCE)	Quest For Success (CE)	Welding I & II (PSCE)
Af-Am Studies (GE)	Biology II (GE)	CIW (PSCE): IBA, NTA, SDA	Fam & Cons Sci I, II (PSCE)	Health	JROTC I, II, V-VIII (GE)	PE I, II, III-VIII (GE)	Spanish I, II	World Geography
AgScience I (CE), II-IV (PSCE)	Biomedical Innovation (PSCE)	Computer Sci (PSCE)	Financial Literacy (CE)	Human Body Sys (PSCE)	JROTC III, IV (CE, GE)	Physical Science	Technical Math (CE)	World History
Algebra III (GE)	Business Math	Digi Electronics (PSCE)	Food Science (PSCE)	Intro to Bus Cptr Apps (CE)	Law Studies (GE)	Prin of Biomed (PSCE)	Tech Reading & Writing (CE)	

## Health Sciences: Biomedical incorporated into TOPS Tech & TOPS University (Suggested Course Progression)

### TOPS 2 JumpStart Pathway (with approved pathway)

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government PE I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History H/PE II Ag I or JAG I or Quest for Success Career Elective
<b>11<sup>th</sup> Grade</b> English III Business Math Principles of Biomedical Science Human Body Systems Career Elective (pathway approved) Career Elective (pathway approved) General Elective (Biology II recommended) General Elective	<b>12<sup>th</sup> Grade</b> English IV ACT Prep Career Elective (C N A or E M R) Medical Interventions Biomedical Innovation General Elective General Elective General Elective

### TOPS 4 University Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government PE I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History H/PE II General Elective General Elective
<b>11<sup>th</sup> Grade</b> English III Geometry Chemistry Spanish I Spanish II Principles of Biomedical Science Human Body Systems General Elective	<b>12<sup>th</sup> Grade</b> English IV Advanced Math World Geography World History Arts ACT Prep Medical Interventions Biomedical Innovation

Electives: General Electives and Career Electives. Career Electives (CE) can be used as General Electives; Pathway Specific Career Elective (PSCE)								
ACT Prep (GE)	Arts: Band, Choir, Fine Arts Survey	C N A (PSCE)	EMR: First Responder (CE)	Food Services I, II (PSCE)	Intro to Eng Design (PSCE)	Math Essentials	Prin of Eng (PSCE)	Technical Writing (CE)
Adv Math	Automation in Ag (PSCE)	Chemistry I, II (GE)	Env Sci	Geometry	JAG (CE)	Med Interventions (PSCE)	Quest For Success (CE)	Welding I & II (PSCE)
Af-Am Studies (GE)	Biology II (GE)	CIW (PSCE): IBA, NTA, SDA	Fam & Cons Sci I, II (PSCE)	Health	JROTC I, II, V-VIII (GE)	PE I, II, III-VIII (GE)	Spanish I, II	World Geography
AgScience I (CE), II-IV (PSCE)	Biomedical Innovation (PSCE)	Computer Sci (PSCE)	Financial Literacy (CE)	Human Body Sys (PSCE)	JROTC III, IV (CE, GE)	Physical Science	Technical Math (CE)	World History
Algebra III (GE)	Business Math	Digi Electronics (PSCE)	Food Science (PSCE)	Intro to Bus Cptr Apps (CE)	Law Studies (GE)	Prin of Biomed (PSCE)	Tech Reading & Writing (CE)	

## Health Sciences: Certified Nursing Assistant (Suggested Course Progression)

### TOPS 2 JumpStart Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health Ag I or JAG I or Quest for Success General Elective
<b>11<sup>th</sup> Grade</b> English III Business Math Career Elective (First Responder recommended) Career Elective Career Elective Career Elective General Elective (Biology II recommended) General Elective	<b>12<sup>th</sup> Grade</b> English IV Nurse Assistant (2.0 credits) Career Elective Career Elective ACT Prep General Elective General Elective

### TOPS 4 University Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health General Elective General Elective
<b>11<sup>th</sup> Grade</b> English III Geometry Chemistry Spanish I Spanish II General Elective (First Responder recommended) General Elective (Biology II recommended) General Elective	<b>12<sup>th</sup> Grade</b> English IV Advanced Math World Geography World History Arts Nurse Assistant (2.0 credits) ACT Prep

Electives: General Electives and Career Electives. Career Electives (CE) can be used as General Electives; Pathway Specific Career Elective (PSCE)								
ACT Prep (GE)	Arts: Band, Choir, Fine Arts Survey	C N A (PSCE)	EMR: First Responder (CE)	Food Services I, II (PSCE)	Intro to Eng Design (PSCE)	Math Essentials	Prin of Eng (PSCE)	Technical Writing (CE)
Adv Math	Automation in Ag (PSCE)	Chemistry I, II (GE)	Env Sci	Geometry	JAG (CE)	Med Interventions (PSCE)	Quest For Success (CE)	Welding I & II (PSCE)
Af-Am Studies (GE)	Biology II (GE)	CIW (PSCE): IBA, NTA, SDA	Fam & Cons Sci I, II (PSCE)	Health	JROTC I, II, V-VIII (GE)	PE I, II, III-VIII (GE)	Spanish I, II	World Geography
AgScience I (CE), II-IV (PSCE)	Biomedical Innovation (PSCE)	Computer Sci (PSCE)	Financial Literacy (CE)	Human Body Sys (PSCE)	JROTC III, IV (CE, GE)	Physical Science	Technical Math (CE)	World History
Algebra III (GE)	Business Math	Digi Electronics (PSCE)	Food Science (PSCE)	Intro to Bus Cptr Apps (CE)	Law Studies (GE)	Prin of Biomed (PSCE)	Tech Reading & Writing (CE)	

## Health Sciences: Emergency Medical Responder (Suggested Course Progression)

### TOPS 2 JumpStart Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health Ag I or JAG I or Quest for Success General Elective
<b>11<sup>th</sup> Grade</b> English III Business Math First Responder Career Elective Career Elective Career Elective General Elective (Biology II recommended) General Elective	<b>12<sup>th</sup> Grade</b> English IV Career Elective Career Elective Career Elective Career Elective ACT Prep General Elective General Elective

### TOPS 4 University Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health General Elective General Elective
<b>11<sup>th</sup> Grade</b> English III Geometry Chemistry Spanish I Spanish II First Responder General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV Advanced Math World Geography World History Arts ACT Prep General Elective (Biology II recommended) General Elective

Electives: General Electives and Career Electives. Career Electives (CE) can be used as General Electives; Pathway Specific Career Elective (PSCE)								
ACT Prep (GE)	Arts: Band, Choir, Fine Arts Survey	C N A (PSCE)	EMR: First Responder (CE)	Food Services I, II (PSCE)	Intro to Eng Design (PSCE)	Math Essentials	Prin of Eng (PSCE)	Technical Writing (CE)
Adv Math	Automation in Ag (PSCE)	Chemistry I, II (GE)	Env Sci	Geometry	JAG (CE)	Med Interventions (PSCE)	Quest For Success (CE)	Welding I & II (PSCE)
Af-Am Studies (GE)	Biology II (GE)	CIW (PSCE): IBA, NTA, SDA	Fam & Cons Sci I, II (PSCE)	Health	JROTC I, II, V-VIII (GE)	PE I, II, III-VIII (GE)	Spanish I, II	World Geography
AgScience I (CE), II-IV (PSCE)	Biomedical Innovation (PSCE)	Computer Sci (PSCE)	Financial Literacy (CE)	Human Body Sys (PSCE)	JROTC III, IV (CE, GE)	Physical Science	Technical Math (CE)	World History
Algebra III (GE)	Business Math	Digi Electronics (PSCE)	Food Science (PSCE)	Intro to Bus Cptr Apps (CE)	Law Studies (GE)	Prin of Biomed (PSCE)	Tech Reading & Writing (CE)	

## Hospitality and Tourism (Suggested Course Progression)

### TOPS 2 JumpStart Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health Family and Consumer Science I Foods
<b>11<sup>th</sup> Grade</b> English III Business Math Food Services (Pro Start I) Ag I or JAG I or Quest for Success Career Elective Career Elective General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV Food Services II (Pro Start II) Career Elective Career Elective ACT Prep General Elective General Elective General Elective

### TOPS 4 University Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health Family and Consumer Science I Foods
<b>11<sup>th</sup> Grade</b> English III Geometry Chemistry Spanish I Spanish II Food Services (Pro Start I) General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV Advanced Math World Geography World History Arts ACT Prep Food Services II (Pro Start II) General Elective

Electives: General Electives and Career Electives. Career Electives (CE) can be used as General Electives; Pathway Specific Career Elective (PSCE)								
ACT Prep (GE)	Arts: Band, Choir, Fine Arts Survey	C N A (PSCE)	EMR: First Responder (CE)	Food Services I, II (PSCE)	Intro to Eng Design (PSCE)	Math Essentials	Prin of Eng (PSCE)	Technical Writing (CE)
Adv Math	Automation in Ag (PSCE)	Chemistry I, II (GE)	Env Sci	Geometry	JAG (CE)	Med Interventions (PSCE)	Quest For Success (CE)	Welding I & II (PSCE)
Af-Am Studies (GE)	Biology II (GE)	CIW (PSCE): IBA, NTA, SDA	Fam & Cons Sci I, II (PSCE)	Health	JROTC I, II, V-VIII (GE)	PE I, II, III-VIII (GE)	Spanish I, II	World Geography
AgScience I (CE), II-IV (PSCE)	Biomedical Innovation (PSCE)	Computer Sci (PSCE)	Financial Literacy (CE)	Human Body Sys (PSCE)	JROTC III, IV (CE, GE)	Physical Science	Technical Math (CE)	World History
Algebra III (GE)	Business Math	Digi Electronics (PSCE)	Food Science (PSCE)	Intro to Bus Cptr Apps (CE)	Law Studies (GE)	Prin of Biomed (PSCE)	Tech Reading & Writing (CE)	

# **JROTC (JROTC incorporated into TOPS Tech & TOPS University) (Suggested Course Progression)**

## **TOPS 2 JumpStart Pathway (with approved pathway)**

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government JROTC I JROTC II Personal Finance	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History JROTC III JROTC IV Ag I or JAG I or Quest for Success
<b>11<sup>th</sup> Grade</b> English III Business Math JROTC V JROTC VI Career Elective (pathway approved) Career Elective (pathway approved) Career Elective (pathway approved) General Elective	<b>12<sup>th</sup> Grade</b> English IV JROTC VII JROTC VIII Career Elective (pathway approved) Career Elective (pathway approved) Career Elective (pathway approved) ACT Prep General Elective

## **TOPS 4 University Pathway**

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government JROTC I JROTC II Personal Finance	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History JROTC III JROTC IV General Elective
<b>11<sup>th</sup> Grade</b> English III Geometry Chemistry Spanish I Spanish II JROTC V JROTC VI General Elective	<b>12<sup>th</sup> Grade</b> English IV Advanced Math World Geography World History Arts ACT Prep JROTC VII JROTC VIII

Electives: General Electives and Career Electives. Career Electives (CE) can be used as General Electives; Pathway Specific Career Elective (PSCE)								
ACT Prep (GE)	Arts: Band, Choir, Fine Arts Survey	C N A (PSCE)	EMR: First Responder (CE)	Food Services I, II (PSCE)	Intro to Eng Design (PSCE)	Math Essentials	Prin of Eng (PSCE)	Technical Writing (CE)
Adv Math	Automation in Ag (PSCE)	Chemistry I, II (GE)	Env Sci	Geometry	JAG (CE)	Med Interventions (PSCE)	Quest For Success (CE)	Welding I & II (PSCE)
Af-Am Studies (GE)	Biology II (GE)	CIW (PSCE): IBA, NTA, SDA	Fam & Cons Sci I, II (PSCE)	Health	JROTC I, II, V-VIII (GE)	PE I, II, III-VIII (GE)	Spanish I, II	World Geography
AgScience I (CE), II-IV (PSCE)	Biomedical Innovation (PSCE)	Computer Sci (PSCE)	Financial Literacy (CE)	Human Body Sys (PSCE)	JROTC III, IV (CE, GE)	Physical Science	Technical Math (CE)	World History
Algebra III (GE)	Business Math	Digi Electronics (PSCE)	Food Science (PSCE)	Intro to Bus Cptr Apps (CE)	Law Studies (GE)	Prin of Biomed (PSCE)	Tech Reading & Writing (CE)	

## Manufacturing: C4M (Suggested Course Progression)

### TOPS Tech JumpStart Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health AgScience I General Elective
<b>11<sup>th</sup> Grade</b> English III Business Math AgScience II Career Elective (JAG or Quest for Success Recommended) Career Elective Career Elective General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV Automation in Ag Career Elective Career Elective Career Elective ACT Prep General Elective General Elective

### TOPS University Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health AgScience I General Elective
<b>11<sup>th</sup> Grade</b> English III Geometry Chemistry Spanish I Spanish II AgScience II General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV Advanced Math World Geography World History Arts ACT Prep Automation in Ag General Elective

Electives: General Electives and Career Electives. Career Electives (CE) can be used as General Electives; Pathway Specific Career Elective (PSCE)								
ACT Prep (GE)	Arts: Band, Choir, Fine Arts Survey	C N A (PSCE)	EMR: First Responder (CE)	Food Services I, II (PSCE)	Intro to Eng Design (PSCE)	Math Essentials	Prin of Eng (PSCE)	Technical Writing (CE)
Adv Math	Automation in Ag (PSCE)	Chemistry I, II (GE)	Env Sci	Geometry	JAG (CE)	Med Interventions (PSCE)	Quest For Success (CE)	Welding I & II (PSCE)
Af-Am Studies (GE)	Biology II (GE)	CIW (PSCE): IBA, NTA, SDA	Fam & Cons Sci I, II (PSCE)	Health	JROTC I, II, V-VIII (GE)	PE I, II, III-VIII (GE)	Spanish I, II	World Geography
AgScience I (CE), II-IV (PSCE)	Biomedical Innovation (PSCE)	Computer Sci (PSCE)	Financial Literacy (CE)	Human Body Sys (PSCE)	JROTC III, IV (CE, GE)	Physical Science	Technical Math (CE)	World History
Algebra III (GE)	Business Math	Digi Electronics (PSCE)	Food Science (PSCE)	Intro to Bus Cptr Apps (CE)	Law Studies (GE)	Prin of Biomed (PSCE)	Tech Reading & Writing (CE)	

## Manufacturing: Pre-Engineering (Suggested Course Progression)

### TOPS Tech JumpStart Pathway (with Manufacturing)

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health Intro to Engineering Design General Elective (IBCA recommended)
<b>11<sup>th</sup> Grade</b> English III Business Math Principles of Engineering Computer Science Principles AgSci I Career Elective (JAG or Quest for Success Recommended) General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV Digital Electronics AgSci II Automation in Ag ACT Prep General Elective General Elective General Elective

### TOPS University Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health Intro to Engineering Design General Elective
<b>11<sup>th</sup> Grade</b> English III Geometry Chemistry Spanish I Spanish II Principles of Engineering Computer Science Principles General Elective	<b>12<sup>th</sup> Grade</b> English IV Advanced Math World Geography World History Arts ACT Prep Digital Electronics General Elective

Electives: General Electives and Career Electives. Career Electives (CE) can be used as General Electives; Pathway Specific Career Elective (PSCE)								
ACT Prep (GE)	Arts: Band, Choir, Fine Arts Survey	C N A (PSCE)	EMR: First Responder (CE)	Food Services I, II (PSCE)	Intro to Eng Design (PSCE)	Math Essentials	Prin of Eng (PSCE)	Technical Writing (CE)
Adv Math	Automation in Ag (PSCE)	Chemistry I, II (GE)	Env Sci	Geometry	JAG (CE)	Med Interventions (PSCE)	Quest For Success (CE)	Welding I & II (PSCE)
Af-Am Studies (GE)	Biology II (GE)	CIW (PSCE): IBA, NTA, SDA	Fam & Cons Sci I, II (PSCE)	Health	JROTC I, II, V-VIII (GE)	PE I, II, III-VIII (GE)	Spanish I, II	World Geography
AgScience I (CE), II-IV (PSCE)	Biomedical Innovation (PSCE)	Computer Sci (PSCE)	Financial Literacy (CE)	Human Body Sys (PSCE)	JROTC III, IV (CE, GE)	Physical Science	Technical Math (CE)	World History
Algebra III (GE)	Business Math	Digi Electronics (PSCE)	Food Science (PSCE)	Intro to Bus Cptr Apps (CE)	Law Studies (GE)	Prin of Biomed (PSCE)	Tech Reading & Writing (CE)	



## Manufacturing: Welding (Suggested Course Progression)

### TOPS Tech JumpStart Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health AgScience I General Elective
<b>11<sup>th</sup> Grade</b> English III Business Math AgScience II Career Elective Career Elective Career Elective General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV Welding I Welding II Career Elective Career Elective ACT Prep General Elective General Elective

### TOPS University Pathway

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E.I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health AgScience I General Elective
<b>11<sup>th</sup> Grade</b> English III Geometry Chemistry Spanish I Spanish II AgScience II General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV Advanced Math World Geography World History Arts ACT Prep Welding I Welding II

Electives: General Electives and Career Electives. Career Electives (CE) can be used as General Electives; Pathway Specific Career Elective (PSCE)								
ACT Prep (GE)	Arts: Band, Choir, Fine Arts Survey	C N A (PSCE)	EMR: First Responder (CE)	Food Services I, II (PSCE)	Intro to Eng Design (PSCE)	Math Essentials	Prin of Eng (PSCE)	Technical Writing (CE)
Adv Math	Automation in Ag (PSCE)	Chemistry I, II (GE)	Env Sci	Geometry	JAG (CE)	Med Interventions (PSCE)	Quest For Success (CE)	Welding I & II (PSCE)
Af-Am Studies (GE)	Biology II (GE)	CIW (PSCE): IBA, NTA, SDA	Fam & Cons Sci I, II (PSCE)	Health	JROTC I, II, V-VIII (GE)	PE I, II, III-VIII (GE)	Spanish I, II	World Geography
AgScience I (CE), II-IV (PSCE)	Biomedical Innovation (PSCE)	Computer Sci (PSCE)	Financial Literacy (CE)	Human Body Sys (PSCE)	JROTC III, IV (CE, GE)	Physical Science	Technical Math (CE)	World History
Algebra III (GE)	Business Math	Digi Electronics (PSCE)	Food Science (PSCE)	Intro to Bus Cptr Apps (CE)	Law Studies (GE)	Prin of Biomed (PSCE)	Tech Reading & Writing (CE)	

# TOPS University General Studies and Advanced Placement (Suggested Course Progression)

## TOPS University Pathway: General Studies

<b>9<sup>th</sup> Grade</b> English I Algebra I Math Essentials Physical Science Government P. E. I Personal Finance General Elective	<b>10<sup>th</sup> Grade</b> English II Algebra II Biology I Environmental Science US History P. E. II/Health General Elective (IBCA recommended) General Elective
<b>11<sup>th</sup> Grade</b> English III Geometry Chemistry Spanish I Spanish II General Elective (CIW IBA recommended) General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV Advanced Math World Geography World History Arts ACT Prep General Elective (Biology II recommended) General Elective

## TOPS University Pathway Advanced Placement

<b>9<sup>th</sup> Grade</b> %English II PreAP %Algebra II Physical Science AP Government P. E. I Personal Finance Advanced English Foundations I General Elective	<b>10<sup>th</sup> Grade</b> %Advanced English Foundations II %Geometry Biology Environmental Science US History P. E. II/Health General Elective General Elective
<b>11<sup>th</sup> Grade</b> English III AP Advanced English Foundations III Advanced Math Chemistry Spanish I Spanish II General Elective General Elective	<b>12<sup>th</sup> Grade</b> English IV AP Advanced English Foundations IV Algebra III Chemistry II (AP) or Biology II (AP) World Geography World History Arts ACT Prep

Electives: General Electives and Career Electives. Career Electives (CE) can be used as General Electives; Pathway Specific Career Elective (PSCE)								
ACT Prep (GE)	Arts: Band, Choir, Fine Arts Survey	C N A (PSCE)	EMR: First Responder (CE)	Food Services I, II (PSCE)	Intro to Eng Design (PSCE)	Math Essentials	Prin of Eng (PSCE)	Technical Writing (CE)
Adv Math	Automation in Ag (PSCE)	Chemistry I, II (GE)	Env Sci	Geometry	JAG (CE)	Med Interventions (PSCE)	Quest For Success (CE)	Welding I & II (PSCE)
Af-Am Studies (GE)	Biology II (GE)	CIW (PSCE): IBA, NTA, SDA	Fam & Cons Sci I, II (PSCE)	Health	JROTC I, II, V-VIII (GE)	PE I, II, III-VIII (GE)	Spanish I, II	World Geography
AgScience I (CE), II-IV (PSCE)	Biomedical Innovation (PSCE)	Computer Sci (PSCE)	Financial Literacy (CE)	Human Body Sys (PSCE)	JROTC III, IV (CE, GE)	Physical Science	Technical Math (CE)	World History
Algebra III (GE)	Business Math	Digi Electronics (PSCE)	Food Science (PSCE)	Intro to Bus Cptr Apps (CE)	Law Studies (GE)	Prin of Biomed (PSCE)	Tech Reading & Writing (CE)	

# **COURSE DESCRIPTIONS**

## **ACT Prep**

### **ACT Prep**

Prerequisites: None

This course is designed to aid students in developing and improving test taking skills, specifically for ACT, so they can achieve and surpass ACT score requirements for TOPS and colleges and universities admissions. Not only are students taught ACT testing techniques, they are provided with testing practice in authentic testing-day settings. All students who do not have an ACT composite of a 21 will be enrolled in this course; preference is given to senior level students.

## **AgriScience**

### **AgriScience I (Ag I)**

Prerequisite: None

AgriScience I provides students with basic knowledge of agriculture and its history, and the science applications in agriculture. This course includes units in animal science, soil science, plant science, agricultural mechanics, food science technology, and agricultural leadership. Mathematics, science, English, biology, and human relation skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises, field trips, and internships. Students will work toward earning the following industry based certifications: NCCER Core and Course 1 of Certification 4 Manufacturing (C4M)

### **AgriScience II (Ag II)**

Prerequisite: Ag I

AgriScience II provides students with basic knowledge of agriculture and science applications in agriculture. This course includes units in animal science, forestry, plant science, agricultural mechanics, and agricultural leadership. Mathematics, science, English, biology, and human relations skills will be reinforced in this course. Work-based learning strategies appropriate for this course are school-based enterprises, field trips, and internships. Students will work toward earning the following industry based certification: OSHA 10 and Course 2 of C4M

### **AgriScience III (Ag III)**

Prerequisite: Ag I and Ag II

This course is an advanced study in Agriscience. The major areas of study should include personal development skills, animal systems, plant systems, environment issues, and mechanical skills. Mathematics, science, English, biology, and human relation skills will be reinforced in the course. Work-based learning strategies appropriate for this course are field trips, school-based enterprises, and job shadowing.

## **Business**

### **Introduction to Business Computer Applications (IBCA)**

Prerequisites: None

This course is designed to acquaint students with principles associated with information processing. Students study computer concepts, software applications, and computer systems. Emphasis is placed on skill development in using technology to perform advanced information processing. Topics of study include computer concepts, word processing, spreadsheet, database, and presentation software applications. Computer technology will be presented that may lead to the student's ability to obtain certification in a popular office software package that includes word processing, spreadsheets, databases, e-mail, and presentation programs. Material is presented in a manner to provide students with the knowledge to become Microsoft Office Specialist Certified in several areas such as Word and PowerPoint.

### **Certified Internet Web Professional: Internet Business Associate (IBA)**

Prerequisites: None

Internet Business Associate prepares students to work efficiently in today's business environment. In this course, students will learn about the tasks involved in various Information Technology (IT) job roles, and explore career opportunities in the IT industry. Students will also learn about the Internet connection methods, Internet protocols, the Domain Name System (DNS), cloud computing and mobile devices. Students will study the basic functions of Web browsers, the components of Web addresses and browser use in the business world. Students will learn how

browser plug-ins and add-ons can improve the Web-browsing experience and how to use browsers to download and manage files.

### **Certified Internet Web Professional: Network Technology (NET TECH)**

Prerequisites: CIW IBA

The [Network Technology Associate](#) course prepares students for job readiness in many business and technology-related careers. Understanding the fundamentals of networking, Internet protocols and network security is important for all professionals who use the Internet. This certification proves mastery of the basics of networking and prepares the student for further study in the specialty of his/her choosing.

### **Certified Internet Web Professional: Site Development Associate (SITE)**

Prerequisites: CIW IBA

Site Development Associate teaches essential Web page development skills. Students will learn to develop Web sites using Hypertext Markup Language version 5. (HTML5) and Cascading Style Sheets (CSS). Students will learn to write code manually, as well as use graphical user interface (GUI) authoring tools. Students will also learn to insert images, create hyperlinks, and add tables, forms, video, and audio to Web pages.

### **Jobs for America's Graduates I-IV (JAG)**

Prerequisites: None

Jobs for America's Graduates (JAG) is a state-based national non-profit organization dedicated to preventing dropouts among young people who have serious barriers to graduation and/or employment. JAG provides job skills training, support for graduation, and exposure and awareness to postsecondary opportunities.

### **Law Studies**

Prerequisites: None

This course is an introduction to our legal system, business law, and personal law. Students should gain and understanding of the law as it relates to them currently and the implications of the law in their future lives and the lives of their family and friends. They will also gain an understanding of basic legal vocabulary.

### **Quest for Success (QFS)**

Prerequisites: None

Quest for Success is a career exploration course designed to prepare students for career and life success. This course will help students to develop essential 21st century workforce skills -- the ability to community, collaborate, and lead: explore new and exciting careers and industry sections; and learn about themselves and their interests to successfully navigate high school, postsecondary education, and career pathways.

## **Family and Consumer Science**

### **Family and Consumer Science I (FACS I)**

Prerequisites: None

course examines multiple life roles and responsibilities of individuals and family members. The focus is on the areas of personal and family living, wellness, nutrition and foods, financial management, living environments, appropriate child development practices, and transferring school skills to life and work. Through simulated experiences students learn to fulfill their responsibilities associated with the work of the family and community. Skills in math, communication, science, technology, personal and interpersonal relationships and reinforced in this course. Students will work toward earning the following industry based certification: Customer Service.

### **Family and Consumer Science II (FACS II)**

Prerequisite: FACS I

This course enhances the foundational skills introduced in FACS I. Additional learning focus and practical application activities are implemented in the areas of personal and family living, wellness, nutrition and foods financial management, living environments, appropriate child development practices, and transferring school skills to life and work. Students continue to apply skills helping them to fulfill their responsibilities with the work of the family and the community through simulated experiences. Emphasis is on applying knowledge of real life situations.

### **Customer Service Certification Credit**

Corequisite: FACS I

The Customer Service and Sales Certification measures a candidate's ability to learn about products or services, assess and meet customer needs, educate customers, and provide ongoing support. The certification is appropriate

for anyone interested in obtaining a job or pursuing a career in retail and other industries that value customer service and sales skills.

### **Food Science (Foods)**

Prerequisites: FACS I

Food Science is course designed to teach food and food safety. Students apply skills in a kitchen laboratory and work toward certification as a ServSafe Food Manager.

### **Food Services I/ProStart I**

Prerequisites: FACS I and Food Science

Food Services I/ProStart I is a continuation of the application of food science, nutrition, and culinary skills.

Emphasis on food safety and management is provided, and students work toward a ProStart Level I certification.

### **Food Services II/ProStart II**

Prerequisites: Food Services I/ProStart I

Food Services II/ProStart II is an advanced continuation of the application of food science, nutrition, and culinary skills. Emphasis on food safety and management is provided, and students work toward a ProStart Level II certification.

## **Government and History**

### **AP Government**

Prerequisites: None

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they complete a political science research or applied civics project. Students are AP tested.

### **African-American Studies**

Prerequisites: None

African American Studies traces the African American experience, which spans four hundred years from the colonization of the US and the installation of trans-Atlantic slavery to the present day.

### **Civics**

Prerequisites: None

The purpose of this course is to emphasize the responsibilities of citizens in a democratic society by providing the basic attitudes and understandings necessary for citizenship. Students will develop understanding of the principles, structures, and functions of federal, state, and local governments. The course will now incorporate units of study dealing with the economic system of the United States, thus eliminating a separate Free Enterprise course requirement.

### **US History**

Prerequisites: None

In this course, students trace the development of the United States from Westward Expansion to exploring the events such as the Industrial Revolution, immigration, urbanization, the Roaring 20's, the two World Wars, the Great Depression, the Civil Rights Movements, the Cold War conflict and the Vietnam War had on the country. Students are required to take the State required assessment which will count as 20% of the final course grade.

### **World Geography**

Prerequisites: None

The purpose of this course is to deal with the earth and how people interact with their environment. The course offers an understanding of the way people live in particular places and why they live as they do. Exploration of the physical and cultural features of the earth, changing earth resources, people and the land, political boundaries, economic growth and technical change will also be studied.

### **World History**

Prerequisites: None

The purpose of this course is to study the history of modern civilization. Students will investigate events, trends, and developments that have an impact on the development of the modern world. The focus of the course will be a

survey from the Renaissance through the end of the Cold War, with an emphasis on western European history and its influence on the world.

## **Health and Physical Education**

### **Emergency Medical Responder (EMR)**

Prerequisites: Current CPR certification is required to be eligible for this course.

This course trains individuals who are the first to arrive at an emergency to provide efficient and accurate pre-hospital care. Students assess patients for wounds to determine if trauma, shock, burns or closed airways are a problem and how to address those issues by dressing wounds, stabilizing the person or administering oxygen. They immobilize patients and address common emergency medical issues with basic treatments. This course includes hands-on, practical experience and is necessary to be eligible for first responder certification.

### **Certified Nurse Assistant**

Prerequisites: Junior/Senior level status and at least 17 years old for certification; must pass criminal background check for certification; CPR certification

This course is a dual-enrollment program with NWLTC. Students are provided training that will lead toward State certification as a Nurse Assistant.

### **Health**

Prerequisites: None

This course focuses primarily on students' personal health. It is wellness-based and offers students an opportunity to learn skills that could help them throughout their lives. The course has been created for students to analyze their health and well-being in regards to fitness, disease, abuse, prevention and awareness, communication, family and environmental health. In addition, Health provides many different resources that students will be able to continually use as future references in their quest to seek health information. Students work toward certification in CPR.

### **Physical Education I-IV**

Prerequisites: None

This course helps to meet the Louisiana High School physical education graduation credits. In learning fitness self-management skills, developing a positive attitude for lifetime fitness, discussion cardiovascular fitness and how that is incorporated into recreation, active sports and skill-related physical fitness. The physical education program helps students attain physical and mental well-being competencies. It is the one subject area that provides learning in all three domains: cognitive, affective, and psychomotor. It also helps foster communication skills, promotes productive goal setting and positive attitudes which result in a healthy lifestyle and a productive use of leisure time.

## **Junior Reserve Officers' Training Corps (JROTC)**

### **JROTC I - VIII**

Prerequisites: None

The U.S. Army Junior Reserve Officers' Training Corps (JROTC) is one of the largest character development and citizenship program for youth in the world. JROTC's mission, "To Motivate Young People to be Better Citizens," is the guide post of the program's success. Basic course subjects – Physical training one day a week; classroom studies Monday – Friday, Proper uniform one day each week; Drill or leader development one day each week. Students will learn Leadership and Character Development and discipline, become self-confident, gain respect for self and others. Students have the opportunity to advance through multiple levels. JROTC is permissible as a substitute for P.E. requirements.

## **Language Arts**

### **Technical Reading and Writing**

Prerequisites: None

Technical Reading and Writing is an entry level high school English curriculum in which students improve their basic skills in reading and writing. Students read a variety of texts and practice interpreting literature. Students review and practice the fundamentals of writing, such as how to incorporate effective text evidence, how to write sharply focused thesis statements, how to properly structure a paragraph and essay, and how to identify the strongest, most relevant text evidence to a task. Coursework also includes revising writings to show improvement throughout the course; as needed, students review principles of grammar, punctuation, and vocabulary.

## **English I**

Prerequisites: None

English I is a required, entry level reading and writing curriculum in which students read and respond to various fiction and nonfiction texts, including short stories, dramas, and poems. Students study text evidence, theme, character, vocabulary, figurative language, author's choices, and point of view. Students write a variety of essay types, including arguments to support claims in an analysis of topics or texts, explanatory essays to examine and convey complex ideas clearly, and narratives to develop real or imagined experiences using effective techniques. Through all writing assignments, students work to select and explain relevant and sufficient evidence, organize their ideas effectively, and analyze content. The English I curriculum focuses on the Louisiana Student Standards for ELA. Students are required to take the State required assessment which will count as 20% of the final course grade.

### **Pre-AP English I**

Prerequisites: Special permission; Minimum State assessment scores

Corequisites: Advanced English Foundations I

Pre-AP English I is a required, mid-level reading and writing curriculum in which students read and respond to various fiction and nonfiction texts, including short stories, dramas, and poems. Students study text evidence, theme, character, vocabulary, figurative language, author's choices, and point of view. Students write a variety of essay types, including arguments to support claims in an analysis of topics or texts, explanatory essays to examine and convey complex ideas clearly, and narratives to develop real or imagined experiences using effective techniques. Through all writing assignments, students work to select and explain relevant and sufficient evidence, organize their ideas effectively, and analyze content. The English I curriculum focuses on the Louisiana Student Standards for ELA. Students are required to take the State required assessment which will count as 20% of the final course grade.

### **Technical Writing**

Prerequisites: None

This course includes the skills in verbal and written communication that students will need to be successful in the workplace. Students will know and use the terminology in their chosen field of work. They will understand, summarize, interpret, and compare information from simple and complex graphics to identify trends and to make informed decisions. They will also demonstrate proficiency in writing and presentation skills by producing different technical writing products, including formal research reports, formal presentations, and workplace writing (e.g., technical reports, manuals, explanations of how to understand or use a product or service, proposals, memoranda, cover letters). In creating those products, students will demonstrate an understanding of the context in which communication occurs, the ethical issues involved, how to identify and address the needs of audiences, and the methods and strategies for organizing and presenting information.

## **English II**

Prerequisites: English I/Special permission

English II is an entry level reading and writing curriculum in which students are to read and respond to various texts. This required course engages students in an extensive study of literature, helping them to acquire critical vocabulary and learn specifically about the literary elements of Plot, Character, Setting, Theme, Style, Tone, and Point of View. The writing component focuses on literary analysis and interpretation, with an emphasis on organization, structure, and thesis statement development. Regular vocabulary study is required. Reading will center on a variety of authors and genres. The passages covered throughout the semester will represent a diverse range of literary and informational texts. Through this study, students will gain an understanding of how all literature relates to modern audiences. In addition to the reading, students will explore a variety of writing styles by writing various types of essays (persuasive, literary analysis, and expository). The English II curriculum focuses on the Louisiana Student Standards for ELA. Students are required to take the State required assessment which will count as 20% of the final course grade.

### **Pre-AP English II**

Prerequisites: English I or English I Pre-AP/Special permission; Minimum State assessment scores

Corequisites: Advanced English Foundations II

Pre-AP English II is an advanced entry level reading and writing curriculum in which students are to read and respond to various texts. This required course engages students in an extensive study of literature, helping them to

acquire critical vocabulary and learn specifically about the literary elements of Plot, Character, Setting, Theme, Style, Tone, and Point of View. The writing component focuses on literary analysis and interpretation, with an emphasis on organization, structure, and thesis statement development. Regular vocabulary study is required. Reading will center on a variety of authors and genres. The passages covered throughout the semester will represent a diverse range of literary and informational texts. Through this study, students will gain an understanding of how all literature relates to modern audiences. In addition to the reading, students will explore a variety of writing styles by writing various types of essays (persuasive, literary analysis, and expository). The English II curriculum focuses on the Louisiana Student Standards for ELA. Students are required to take the State required assessment which will count as 20% of the final course grade.

### **Advanced English Foundations I-IV**

Prerequisites: Special permission

Advanced English Foundations I-IV are courses designed to complement studies in Pre-AP English I, Pre-AP English II, AP English III, and AP English IV.

### **English III**

Prerequisites: English II/Special permission English III is an upper level reading and writing curriculum in which students are expected to read and respond to texts representing a range of American literature from the Colonial period through the early twentieth century. Students will learn specifically about theme development, author's choices (such as structure, point of view, purpose, and vocabulary), effectiveness of the author's arguments, and strong and thorough textual evidence. Holistically, the curriculum focuses on the Louisiana Student Standards for English Language Arts and encompasses reading, writing, speaking, and listening

### **AP English III: AP English Language and Composition**

Prerequisites: English I or English I Pre-AP, English II or English II Pre-AP/Special permission; Minimum State assessment/ACT scores

Corequisites: Advanced English Foundations III

AP English Language and Composition is an introductory college-level rhetoric and writing curriculum in which students are expected to study and respond to the use of language and rhetorical techniques in non-fiction texts from many disciplines and historical periods. In accordance with the AP English Language and Composition course overview, this course "develop[s] evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments." Students develop a personal writing style by making appropriate grammatical choices; in essence, students analyze rhetorical elements and their effects. It is expected that students take the AP test in May.

### **English IV**

Prerequisites: English I, English II, English III/Special permission

English IV is an upper level comprehensive literature, composition, and language course in which students are expected to read and respond to texts representing a range of literature. Students will learn specifically about theme development, author's choices (such as structure, point of view, purpose, and vocabulary), effectiveness of the author's arguments, and strong and thorough textual evidence. Students read and respond to literature from various genres and cultures – including written, spoken and visual texts – with British authors as the common focus. Coursework is arranged in thematic, chronological, or interdisciplinary units. The course offers supportive reading strategies for a variety of purposes. The composition component focuses on the writing process in literary analysis, research and expository writing. The course emphasizes student use of research tools, resources and techniques for creating products and communicating knowledge. The language component integrates usage, mechanics, and strategies for vocabulary development. Listening and speaking skills are fostered throughout the course. Holistically, the curriculum focuses on the Louisiana Student Standards for English Language Arts.

### **AP English IV: AP English Literature and Composition**

Prerequisites: English III or AP English III/Special permission; Minimum State assessment/ACT scores

Corequisites: Advanced English Foundations IV

AP Literature and Composition is a college level course in which students (after successful completion of English I, II, and English III AP) will have a learning experience equivalent to a typical undergrad introduction to a literary analysis course. Through close reading of literary texts, students will come to understand how writers use language to provide meaning and to answer the big questions in life. Students will try to determine the qualities of literature with merit. The course engages students in the reading and critical analysis of imaginative literature to



deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Vocabulary study is important; students will gain proficiency in applying literary terms. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. It is expected that students take the AP test in May.

### **Spanish I**

Prerequisites: None

Students begin learning the basics. An intensive overview of vocabulary ranging from classroom objects, family, food, city life, weather, parts of the body, and clothing are all introduced. The present tense of verbs is also part of the first year curriculum, providing a solid base for the second year of study. Additionally, Spanish culture is introduced.

### **Spanish II**

Prerequisites: Spanish I

A more rigorous curriculum than Spanish I is presented. Students continue to learn vocabulary in areas such as travel, geography, medical emergencies, and pastimes. The main focus of Spanish II, however, is the acquisition of various verb tenses. By the end of Spanish II, students reinforce the present tense, but add simple and complex past tenses, the present progressive, the future, and the conditional. The ability to use the vocabulary and grammar together comfortably is the challenge and goal of Spanish II. Spanish I is a prerequisite for this course.

## **Manufacturing**

### **Automation in C4M**

Prerequisites: Ag I and Ag II, and first two courses for C4M

This course is an advanced study in Manufacturing. Students work toward completing certification in C4M.

### **Welding I**

Prerequisites: AgriScience I and II, and/Junior, NCCER Core and OSHA 10

This course provides the students the skills necessary for a career with a basic entry-level position in welding. The course will introduce the students to the areas of shielded arc welding, oxy-fuel cutting, welding safety, blueprint reading, welding terminology, and agricultural manufacturing. The emphasis for this course will be developing the student's skills and understanding of the welding field. Topics of study include welding safety, tool identification and care, oxy-fuel cutting, shielded arc welding, welding joints, welding positions, and special applications of welding. Core curriculum areas reinforced in this course are: mathematics, science, and critical thinking skills. Work-based learning strategies appropriate for this course are school-based enterprises, internships, cooperative education, and apprenticeships. Simulations, projects, teamwork and FFA activities, and competitions will provide opportunities for application of instructional competencies.

### **Welding II**

Prerequisite Welding I

This course is a continuation of Welding II as students work toward attaining and perfecting the skills necessary for a career with a basic entry-level position in welding. Students work toward an NCCER Welding Level I certification.

### **Workplace Safety**

Prerequisites: NCCER Core certification, OSHA 10 certification, and BLS/CPR certification

Workplace Safety credit is awarded to students who have met certifications that validate training in workplace safety.

## **Mathematics**

### **Business Mathematics**

Prerequisites: None

Business Math is designed to focus on mathematical concepts and applications needed for the design and management of personal and business finances. Business Mathematics serves as a foundation for students to learn to make mathematically sound decisions in their roles as consumers, employees, and/or entrepreneurs.

### **Financial Literacy**

Prerequisites: None

Financial Literacy provides students with instruction concerning basic principles of finances. Students engage in the application of practical mathematics concepts that are used every day.

### **Technical Mathematics**

Prerequisites: None

Technical Mathematics is a career mathematics course. This course provides instruction on math that is used in everyday situations, especially career situations involving analytical decisions.

### **Math Essentials**

Prerequisites: None

The Math Essentials course is designed to prepare students for Algebra 1. The key content includes understanding the number system, solving one-variable equations and inequalities, along with graphing and interpreting linear equations. Additionally, students will strengthen their problem solving skills and fluency of basic numerical operations which will pave the way for success in Algebra 1.

### **Algebra 1**

Prerequisites: None. Math Essentials recommended

The Algebra 1 course is designed for students to meet the expectations of the Algebra 1 Louisiana Student Standards. The key content includes writing, solving, and graphing the following: linear equations, linear inequalities, systems of equations, systems of inequalities, and quadratic equations. Additionally, students will become proficient with operations on monomial and polynomial expressions. This content will be applied to solving and interpreting real-world problems. Students are required to take the State required assessment which will count as 20% of the final course grade.

### **Algebra 1 PreAP**

Prerequisites: None. Special permission

The Algebra 1 PreAP course is designed to provide students with an in-depth level of instruction, an accelerated pace, and a cooperative learning environment. The Algebra 1 PreAP course is designed for students to meet the expectations of the Algebra 1 Louisiana Student Standards. The key content includes writing, solving, and graphing the following: linear equations, linear inequalities, systems of equations, systems of inequalities, and quadratic equations. Additionally, students will become proficient with operations on monomial and polynomial expressions. This content will be applied to solving and interpreting real-world problems. Students are required to take the State required assessment which will count as 20% of the final course grade.

### **Algebra II**

Prerequisites: Algebra I

Algebra II is a high school course that provides many useful tools for chemistry, physics, ACT, SAT and other advanced mathematics courses. Students will investigate equations, inequalities, linear functions, systems, parent functions, transformations, quadratics, polynomial functions, radical equations, exponential equations, logarithmic equations and rational equations.

### **Geometry**

Prerequisites: Algebra I; Algebra II recommended

This standard first course in geometry is a key component in a mathematics foundation and covers the required concepts of Euclidean geometry including definitions, postulates, and theorems. Areas of study include angles, parallel lines, congruent and similar triangles, rectilinear figures, polygons, circles and arc, and the Pythagorean Theorem. Special topics covered include coordinate and spatial geometry, transformations, introductory trigonometry, and constructions. In addition to including problems which serve to review algebra, the process of “proving” theorems is introduced. Students are required to take the State required assessment which will count as 20% of the final course grade.

### **Geometry PreAP**

Prerequisites: Algebra I; Algebra II recommended; Special permission

This standard accelerated first course in geometry is a key component in a mathematics foundation and covers the required concepts of Euclidean geometry including definitions, postulates, and theorems. Areas of study include angles, parallel lines, congruent and similar triangles, rectilinear figures, polygons, circles and arc, and the Pythagorean Theorem. Special topics covered include coordinate and spatial geometry, transformations, introductory trigonometry, and constructions. In addition to including problems which serve to review algebra, the process of “proving” theorems is introduced. This standard content is explored with greater intensity and

emphasis on proof and analytical thinking. Students are required to take the State required assessment which will count as 20% of the final course grade.

### **Advanced Mathematics I**

Prerequisites: Algebra I, Algebra II; Geometry recommended

Advanced Mathematics I is a course for students in the 11<sup>th</sup> and 12<sup>th</sup> grades who are planning to go to college and wish to prepare for collegiate mathematics. Many of these students will take the ACT while in advanced math and will need to prepare for placement or credit tests in college algebra while taking the course. The topics covered include: polynomial functions, rational functions, exponential functions, logarithmic functions, trigonometry, trigonometric functions, additional trigonometric topics, sequences, series, conic sections and parametric equations.

### **Algebra III**

Prerequisites: Special permission

Algebra III is a course for students in the 11<sup>th</sup> and 12<sup>th</sup> grades who are planning to go to college and wish to prepare for collegiate mathematics. Students are asked to apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational and radical functions, including an intense study of families of functions and the relationships between functions. Students will expand their study of right triangle trigonometry to include general triangles and in the study of trigonometric functions to model simple periodic phenomena. Finally, students bring together all of their experience with functions and geometry to create models and solve contextual problems. Appropriate technology and tools, including manipulatives and calculators, will be used regularly for instruction and assessment. It is expected that students will participate in a CLEP exam for math.

## **Music and Art**

### **Beginning Band**

Prerequisites: None

This is the first year that students generally join High School band. Students learn how the organization works by participating in the numerous events that the band attends. Students also learn how to march in addition to playing their instrument. Students learn advanced concepts in breathing, tone quality, warm-ups, performance, competition, and intonation.

### **Intermediate Band**

Prerequisites: Beginning Band

Students continue to learn how the organization works by participating in the numerous events that the band attends. Students also learn how to march in addition to playing their instrument. Students learn advanced concepts in breathing, tone quality, warm-ups, performance, competition, and intonation.

### **Advanced Band**

Prerequisites: Intermediate Band

This class is taken after a few semesters of High School band. Students may take a position of leadership or work on the band staff to help the organization run smoothly. Students continue to improve marching fundamentals and playing instruments. Students learn advanced concepts in breathing, tone quality, warm-ups, performance, competition, and intonation.

### **Beginning Choir**

Prerequisites: None

This is the first year that students generally join the high school choir. Students learn how the organization works by participating in the numerous events that the choir attends. Students learn advanced concepts in breathing, tone quality, warm-ups, performance, and competition.

### **Intermediate Choir**

Prerequisites: Beginning Choir

Students continue to learn how the organization works by participating in the numerous events that the choir attends. Students learn advanced concepts in breathing, tone quality, warm-ups, performance, and competition.

### **Advanced Choir**

Prerequisites: Intermediate Choir

This class is taken after a few semesters of high school choir. Students may take a position of leadership or work on the choir staff to help the organization run smoothly. Students learn advanced concepts in breathing, tone quality, warm-ups, performance, and competition.

### **Fine Arts Survey**

Prerequisites: None

The objective of Fine Arts Survey is to give the student an introduction to understanding the arts. This course was written to help the student develop the ability to acknowledge and distinguish a fuller awareness of the world through the arts, to develop the ability to express ideas and emotions through participation in the arts, to develop an awareness and understanding of the arts in an historical context and their effects on society in their power to move us, and to develop the capacity to make aesthetic judgments.

## **Science**

### **Physical Science**

Prerequisites: None

This course includes the principles and facts of physical science as they relate to life. Included in this course are: measurement, motion, classifications of matter, changes in matter, sound, light, and energy. Concepts are emphasized through hands-on use of equipment and the process skills as they relate to the understanding of our physical world.

### **Environmental Science**

Prerequisites: None

This course is designed to involve students with the relationship of man to his natural world. Topics investigated include the functioning of ecosystems, pollution, land management, population growth and control, and the role of government to our ecosystem.

### **Biology I**

Prerequisites: Physical Science recommended

This course is designed to allow a reasonable level of mastery in the following areas: use and care of a variety of scientific instruments, energy relationships of living organisms, genetics, anatomy and function of plants and animals, human biology and public health. Basic concepts are emphasized through reading and vocabulary while utilizing the process skills. Students are required to take the State required assessment which will count as 20% of the final course grade.

### **Biology I (Pre-AP)**

Prerequisites: Physical Science; Minimum State assessment scores; Special permission

Pre-AP biology is designed to provide preparation for advancement into higher level sciences. Emphasis is placed on the process of scientific inquiry which will allow a student to interpret and apply scientific knowledge. This course includes the study of principles concerning origin, development, structure, function, reproduction, distribution, and relationship of living things. It includes four major areas of study: microbiology, ecology, zoology, and human biology. The student microscope is a basic tool and appropriate laboratory exercises are included with each unit. Students are required to take the State required assessment which will count as 20% of the final course grade.

### **Biology II (AP)**

Prerequisites: Juniors/Seniors; Biology I and Chemistry

Second course in a two-part introduction to the basic biological principles for the science major. Topics include molecular structure-function, cellular metabolism, genetics, and gene expression. Students are AP tested.

### **Chemistry I**

Prerequisites: Physical Science and Biology I

Chemistry is a physical science which deals with the study of matter and its chemical and physical changes. Included in this course is the study of descriptive chemistry, the periodic table, stoichiometry, chemical reactions, and gas laws. Concepts are emphasized by application through laboratory investigation.

### **Chemistry II (AP)**

Prerequisites: Chemistry I

This is a second course in chemistry which deals with chemistry topics in a greater depth than is possible in a beginning chemistry. Strong emphasis is placed upon the relationship of selected chemistry topics to laboratory

investigations. Topics will include equilibrium, oxidation-reduction, nuclear chemistry, and hydrocarbon chemistry. Problem solution is strongly emphasized and a scientific calculator is required. Students are AP tested.

### **Principles of Biomedical Science (PBS)**

Prerequisites: None

This is the foundational course for the biomedical course rotation. Students explore concepts of biology and medicine.

### **Human Body Systems (HBS)**

Prerequisite/Corequisite: Principles of Biomedical Science

This course is a project-based course in which students examine the interactions of human body systems and apply the knowledge to solve real-world medical cases.

### **Medical Interventions (MI)**

Prerequisites: PBS and HBS

This course delves into activities that investigate how to prevent, diagnose, and treat disease.

### **Biomedical Innovation (BI)**

Prerequisite/Corequisite: Medical Interventions

This final course of the Biomedical Science series of courses provides opportunities to build on knowledge and skills from PBS, HBS, and MI to design innovation solutions for pressing health challenges.

### **Introduction to Engineering Design (IED)**

Prerequisites: None

The major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.

### **Principles of Engineering (POE)**

Prerequisites: IED

This survey course exposes students to major concepts encountered in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. Students develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.

### **AP Computer Science Principles (CSP)**

Prerequisites: IED and POE recommended

AP Computer Science Principles introduces students to the foundations of computer science with a focus on how computing powers the world. Along with the fundamentals of computing, students will learn to analyze data, create technology that has a practical impact, and gain a broader understanding of how computer science impacts people and society. Students are expected to take the AP exam in May.

### **Digital Electronics**

Prerequisites: IED, POE; CS recommended

Digital electronics is the foundation of all modern electronic devices such as mobile phones, MP3 players, laptop computers, digital cameras and high-definition televisions. Students are introduced to the process of combinational and sequential logic design, engineering standards and technical documentation.

## **INDUSTRY BASED CREDENTIAL DESCRIPTIONS**

### **Basic Life Support (BLS) CPR & AED**

The BLS Course trains participants to promptly recognize several life-threatening emergencies, give high-quality chest compressions, deliver appropriate ventilations and provide early use of an AED. In the Instructor-led course, students participate in simulated clinical scenarios and learning stations. Students work with an AHA BLS Instructor to complete BLS skills practice and skills testing. Students also complete a written exam.

### **Certification for Manufacturing (C4M)**

The Certification for Manufacturing (C4M) program provides students with skills aligned to entry-level positions in the manufacturing industry. The C4M curriculum includes extensive classroom and laboratory exposure to the concepts and capabilities most valued by Louisiana employers. Students must successfully complete four courses, a final assessment, and an instructor evaluation to receive the credential

### **Certified Nurse Aide (C N A)**

A Certified Nurse Aide (CNA) is an individual who has successfully completed a Nurse Aide Training Program (NATP) and a Competency Evaluation Program (CEP) approved by the State as meeting the requirements of 42 CFR 483.151 – 42 CFR 483.154 , or who has been determined competent as provided in 42 CFR 483.150(a) and (b). Nurse aides meeting these requirements are listed as certified on the Louisiana Nurse Aide Registry.

### **CIW Site Development Associate (SDA)**

The [CIW Site Development Associate](#) course teaches you essential Web page development skills. You will learn to develop Web sites using Hypertext Markup Language version 5 (HTML5) and Cascading Style Sheets (CSS). You will learn to write code manually, as well as use graphical user interface (GUI) authoring tools. You will also work with images, create hyperlinks, and add tables, forms, video and audio to your Web pages.

### **CIW Internet Business Associate (IBA)**

The [CIW Internet Business Associate](#) course prepares you to work effectively in today's business environment. In this course, you will learn about the tasks involved in various Web Technology job roles, and you will learn the skills and technologies to perform them.

### **CIW Network Technology Associate (NTA)**

The [Network Technology Associate](#) course prepares you for job readiness in many business and technology-related careers. Understanding the fundamentals of networking, Internet protocols and network security is important for all professionals who use the Internet. This certification proves your mastery of the basics of networking and prepares you for further study in the specialty of your choosing.

### **Customer Service and Sales – National Retail Federation**

The Customer Service and Sales Certification measures a candidate's ability to learn about products or services, assess and meet customer needs, educate customers, and provide ongoing support. The certification is appropriate for anyone interested in obtaining a job or pursuing a career in retail and other industries that value customer service and sales skills.

### **Electrical Training Alliance (etA)**

The electrical training ALLIANCE's (etA) goal is to provide the Electrical Construction Industry with the most highly trained and skilled workforce possible. There are 5 levels to this certification: Orientation, Job Information, Codes & Safety, DC Theory, and Blueprints. If all 5 levels are completed with a 75% or higher overall average, an etA Interim Completion Program Certification is awarded.

### **Emergency Medical Responder**

Emergency Medical Responders provide immediate lifesaving care to critical patients who access the emergency medical services system. Emergency Medical Responders have the knowledge and skills necessary to provide immediate lifesaving interventions while awaiting additional EMS resources to arrive. Emergency Medical Responders also provide assistance to higher-level personnel at the scene of emergencies and during transport. Emergency Medical Responders are a vital part of the comprehensive EMS response. Under medical oversight, Emergency Medical Responders perform basic interventions with minimal equipment.

### **FEMA-IS-0700.B National Incident Management System**

This independent study (IS) credential introduces and overviews the National Incident Management System. It provides a consistent nationwide template to enable all government, private-sector, and nongovernmental organizations to work together during domestic incidents.

### **Microsoft Office Specialist: Word, Excel, and PowerPoint**

Microsoft Office provides industry-leading assessments of skills and knowledge through project based testing, giving students and professionals real-world exercises to appraise their understanding of the various Microsoft Office credentials. This guarantees that every certified user has demonstrated the ability to command the full features and functionality of Microsoft Office, preparing them for future academic or workforce opportunities

### **National Career Readiness Certificate: WorkKeys Silver, Gold, or Platinum (ACT NCRC)**

The ACT National Career Readiness Certificate (ACT NCRC) is an assessment-based credential powered by ACT WorkKeys®. The ACT NCRC measures and certifies the essential work skills needed for success in jobs across industries and occupations.

### **National Center for Construction Education Research (NCCER CORE)**

Certification in NCCER Core demonstrates the student has Basic Safety, Introduction to Construction Math, and Introduction to the following: Hand Tools, Power Tools, Construction Drawings, Basic Riggings, Basic Communication Skills, Basic Employability Skills, and Introduction to Material Handling.

#### **National Center for Construction Education Research Welding Level I (NCCER Welding Level I)**

Certification in NCCER Welding Level I demonstrates the student has demonstrated basic welding skills including safety, oxyfuel cutting, metal preparation, plasma arc cutting, air-carbon arc cutting and gouging, base metal preparation, weld quality, joint fit-up and alignment, preheating and postheating of Metals, SMAW welds and more. Certification also requires mastery of basic quantitative and safety skills.

#### **National Restaurant Association ProStart National Certificate of Achievement**

The National ProStart Certificate of Achievement (COA) is an industry-recognized certificate that signifies a strong foundation in the basic management and culinary skills considered critical to success by restaurant industry leaders.

#### **Occupational Safety & Health Administration (OSHA 10)**

The OSHA 10-General Industry credential is a basic overview of the hazards associated with general industry and the federal regulations that address those hazards.

#### **ServSafe Food Protection Manager; ServSafe Food Handler Certification**

The ServSafe program provides food safety training where students learn to implement the essential food safety practices necessary to create a culture of food safety.

## **INTERESTS AND OPPORTUNITIES**

#### **Athletics: Baseball, Men's Basketball, Women's Basketball, Football, Track, Volleyball**

Mansfield High School provides freshmen, junior varsity, and varsity athletics for male and female athletes. Students must meet eligibility requirements as set forth by the Louisiana High School Athletic Association to participate.

#### **Band and Band Auxiliaries**

The Mansfield High School Band is comprised of musicians who participate in marching and concert events. The band auxiliaries include a dance line, flag line, and majorettes.

#### **Beta Club**

Beta Club is an organization to promote the ideals of academic achievement, character, service, and leadership among elementary and secondary school students. Membership in Beta club is offered to students after established criteria are met.

#### **Cheerleading**

Mansfield High School provides junior varsity and varsity cheerleading opportunities for male and female students. Cheerleaders are selected each year by a panel of judges. Participants must meet academic and physical requirements.

#### **Choir**

The Mansfield High School Choir is comprised of musicians, both vocal and instrumental, who participate in various events at the school and in the community. Students do not have to take a choir class in order to be a member of the MHS Choir.

#### **Family, Career and Community Leaders of America (FCCLA)**

Family, Career and Community Leaders of America is a nonprofit national career and technical student organization for young men and women in Family and Consumer Sciences education in public and private school through grade 12. Everyone is part of a family, and FCCLA is the only national Career and Technical Student Organization with the family as its central focus. Since 1945, FCCLA members have been making a difference in their families, careers, and communities by addressing important personal, work, and societal issues through Family and Consumer Sciences education.

#### **Future Business Leaders of America (FBLA)**

Future Business Leaders of America (FBLA) inspires and prepares students to become community-minded business leaders in a global society through relevant career preparation and leadership experiences. This organization focuses on leadership development, academic competitions, education programs, membership benefits, community services, and awards and recognition.

#### **Future Farmers of America (FFA)**

Future Farmers of America (FFA) is the premier youth organization preparing members for leadership and careers in the science, business and technology of agriculture.

#### **Jobs for America's Graduates (JAG)**

Jobs for America's Graduates (JAG) is a state-based national non-profit organization dedicated to preventing dropouts among young people who have serious barriers to graduation and/or employment. JAG provides job skills training, support for graduation, and exposure and awareness to postsecondary opportunities. Students must have taken a JAG course or be currently enrolled in a JAG course to be eligible for membership.

#### **JROTC: Color Guard, Drill Team, Spirit Team, and Wolverine Battalion**

The Mansfield High School JROTC Program provides opportunities for involvement in the MHS Wolverine Battalion. Students who are enrolled in JROTC courses at MHS are members of the Battalion. Within the Wolverine Battalion, students may choose to participate in ancillary groups that support the MHS JROTC Battalion and MHS in general.

#### **Louisiana Teenage Librarians Association (LTLA)**

The Louisiana Teenage Librarians Association is a Louisiana organization composed of individual library and media club members from throughout the State. The motto "Reading, Knowledge, Service" guides members to plan meaningful and varied experiences while fulfilling club responsibilities.

#### **National Honor Society (NHS)**

The National Honor Society (NHS) is the nation's premier organization established to recognize outstanding high school students. More than just an honor roll, NHS serves to recognize those students who have demonstrated excellence in the areas of scholarship, service, leadership, and character. Membership in NHS is offered to students after established criteria are met.

#### **Poetry Club**

The Poetry Club is an open membership organization for students who wish to network with students who like to express themselves through artistic avenues.

#### **Science Club**

The Science Club is dedicated to providing experiences and networking for students who are interested in scientific matters. Students periodically meet with teacher from the Science Department. Field experiences, informational exchanges, and group projects are just part of the Science Club activities throughout the year.

#### **Student Council**

The Student Council is comprised of officers and members of each grade level at Mansfield High School. The Council is determined annually by student vote.

## **TESTING DESCRIPTIONS**

### **ACT**

The ACT® test is the leading US admissions test, measuring what students learn in high school to determine academic readiness for college. This test is offered at Mansfield High School as required by the State of Louisiana. For specific school site testing for the State testing, please see the DeSoto Parish School System calendar. Mansfield High School serves as a national test centers for several national test dates. For national testing, see [www.act.org](http://www.act.org).

### **Advanced Placement (AP)**

AP® tests are college-level exams on specific subjects and are administered in May upon the completion of an AP course taken at a student's high school. At many colleges and universities, a high enough score will earn the student college credit.

### **Armed Services Vocational Aptitude Battery (ASVAB)**

The ASVAB is a timed multi-aptitude test, which is given at over 14,000 schools and Military Entrance Processing Stations (MEPS) nationwide and is developed and maintained by the Department of Defense.

### **College Level Examination Program (CLEP)**

The College Board's College-Level Examination Program (CLEP) has been the most widely trusted credit-by-examination program for over 50 years, accepted by [2,900 colleges and universities](#) and administered in more than [1,800 test centers](#). This rigorous program allows students from a wide range of ages and backgrounds to demonstrate their mastery of introductory college-level material and earn college credit. Students can earn credit for what they already know by getting qualifying scores on any of the 33 examinations.



While CLEP is sponsored by the College Board, only colleges may grant credit toward a degree. Not all colleges have the same CLEP policies—some colleges accept credit for a few exams, while others accept credit for all of them. A college often grants the same amount of credit to a student who earns satisfactory scores on a CLEP exam as it does for a student who successfully completes the related course.

### **LEAP 2025**

The new, five-level LEAP 2025 assessments replace the former four-level EOC tests and measure students' college and career readiness for respective courses. Students who entered traditional grade 9 in 2010–2011 through 2016–2017 are required to score level 2 (approaching basic/fair) or above on English II or English III, algebra I or geometry, and biology or U.S. history to be eligible for a standard high school diploma. Students who enter traditional grade 9 during or after 2017–2018 are required to score level 2 (approaching basic/fair) or above on English I or English II, algebra I or geometry, and biology or U.S. history to be eligible for a standard high school diploma.

### **LEAP CONNECT**

LEAP Connect is based on the Louisiana Connectors for ELA and math that capture the core content of academic standards.

### **WorkKeys**

WorkKeys is a system of assessments that measure essential workplace skills that can affect job performance and increase opportunities for career changes and advancement. Achievement on the WorkKeys assessments can lead to a National Career Readiness Certificate.

## APPENDIX

## **Fillable Individual Graduation Plan (IGP)**

**Click on the link below to utilize the fillable IGP form from the Louisiana Department of Education.**

[INDIVIDUAL GRADUATION PLAN](#)

TOPS 2 JumpStart Diploma Pathway

Student Name and Cohort:

Career Pathway:

IBC(s) earned:

Course	Year	Earned
English I		
English II		
3rd English		
4th English		
Algebra I		
Algebra II		
Geometry or Math Essentials		
Adv Math or Business Math		
Civics/US Gov't		
US History		
Biology		
2nd Science		
PE or JROTC I		
H/PE or JROTC II		
CTE Course		
CTE Course		
CTE Course		
CTE Course		
CTE Course		
CTE Course		
CTE Course		
CTE Course		
CTE Course		
CTE Course		

ACT Composite	
English	
Math	
Reading	
Science	

WorkKeys Level	
Applied Math	
Graphic Lit	
Workplace Doc	

LEAP 2025	
Algebra I	
Geometry	
English I	
English II	
Biology	
US History	

TOPS 4 University Diploma Pathway

Student Name and Cohort:

College(s) of Interest and Major:

IBC(s) earned:

Course	Year	Earned
English I		
English II		
English III		
English IV		
Algebra I		
Algebra II		
Geometry		
Adv Math		
Civics/US Gov't		
US History		
World Geography		
World History		
Biology		
Chemistry		
3rd Science		
4th Science		
Spanish I		
Spanish II		
Arts		
PE or JROTC I		
H/PE or JROTC II		
Elective		
Elective		
Elective		

ACT Composite	
English	
Math	
Reading	
Science	

WorkKeys Level	
Applied Math	
Graphic Lit	
Workplace Doc	

LEAP 2025	
Algebra I	
Geometry	
English I	
English II	
Biology	
US History	