Dear Parents and Students,

LHS proudly offers many Career & Technology Education courses that provide an enhanced educational experience, preparing our graduates to truly be college and career ready. As we enter 2018-2019 registration process, we encourage you to be fully aware of the exciting academic opportunities within the CTE Department. This letter includes helpful information regarding the CTE content areas, industry certifications, graduation completer programs, courses that meet graduation requirements for **Financial Literacy** and **Technology Education** and courses that offer college credits. CTE courses allow students the opportunity to earn college credits through Dual Enrollment, Advance Placement (AP), Pre-Engineering - Project Lead The Way (PLTW) and Articulation. The FCPS Articulation Agreement allows students that have taken FCC courses (through Dual Enrollment or Open Campus) to get *additional* college credits for their high school courses. In addition to the nine courses that provide articulated college credits, eight courses allow for college credit through Dual Enrollment, AP & PLTW:

FCC Introduction to Business	**Introduction to Engineering Design**
AP Computer Science Principles	**Principles of Engineering**
AP Computer Science	**Digital Electronics**
	Civil Engineering and Architecture
	Engineer Design and Development

If you have any questions regarding the details provided in this packet, feel free to contact a staff member in the Career & Technology Education Department.

Thank You,

Mark Lastova, *Dept. Chair/ PLTW /Tech Ed*

Patricia Beachy, *Agriculture/Tech Ed*
Jeremy Brown, *Work Based Learning*
Leanne Elsemore, *Business/Comp Sci*
Patrick Greene, *PLTW /Tech Ed*
Tom Hawthorne, *Agriculture/Engines*
Kate Lane, *Family & Consumer Sciences*
Leslie Parente, *Tech Ed/Business*
Jennifer Radil-Harris, *Work Based Learning*
Adam Rudderow, *Woodworking/ Tech Ed*
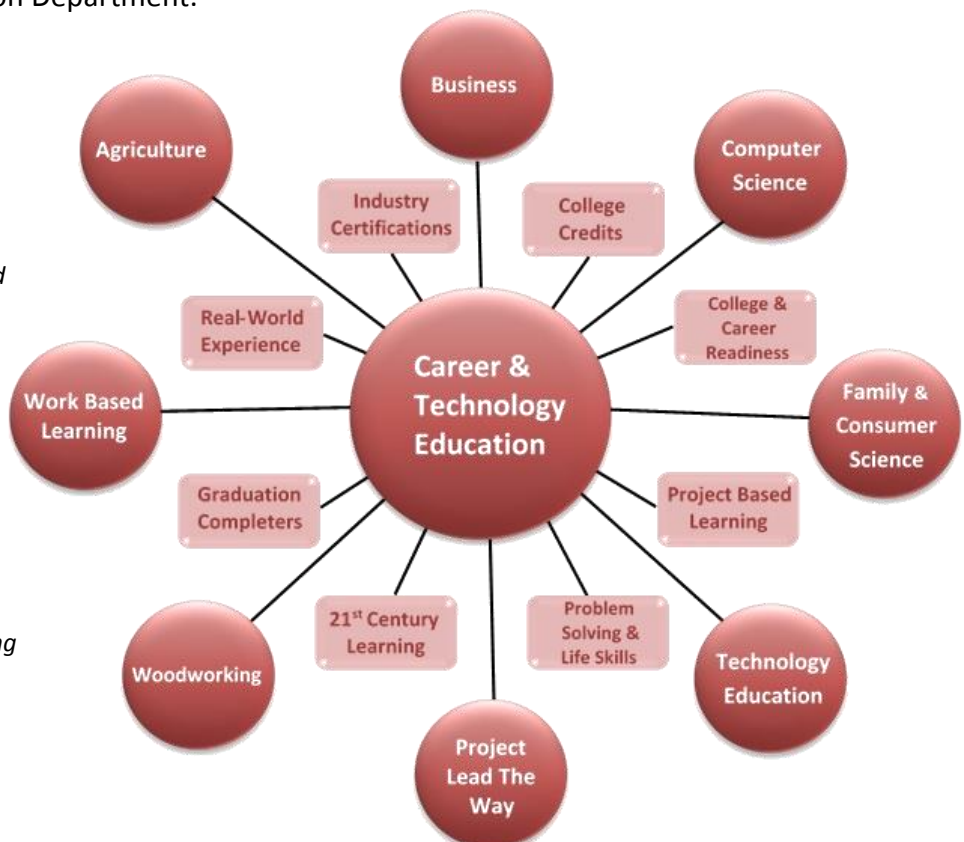
CTE Courses Offered @ LHS		
Agriculture	**Business**	**Computer Science**
Advanced Mechanics Agricultural Science & Technology, $ Agricultural Work Experience Agricultural/Horticulture Ind. Study Engine & Power Technology I Engine & Power Technology II Forestry/Wildlife Management Horse Care & Management Horticulture/Floriculture I Horticulture/Floriculture I Horticulture/Floriculture I Pre-Veterinary, Large Animal Science Pre-Veterinary, Small Animal Science Wood & Metal Structures	Accounting I Accounting II Introduction to Business, $ Management & Entrepreneurship, $ Microsoft Certification Training I, $	Foundations of Computer Science ♦ AP Computer Science Principles,*
Family & Consumer Sciences	**Technology Education**	**Work Based Learning**
Child Development I Child Development II Child Development III Independent Living, $	Architectural Engineer Design I Architectural Engineer Design II, # Architectural Engineer Design III Digital Communications I Digital Communications II Digital Communications III Digital Communications IV Foundations of Technology, ♦	Intro to Career Research & Development, $ Advanced Career Preparation & Transition, $ Mentor/Internship Work Study MD Youth Apprenticeship
Project Lead The Way	**Woodworking**	
Intro. to Engineering Design, ♦* Principles of Engineering, * Digital Electronics, * Civil Engineering & Architecture, * Engineer and Development, *	Woodworking I Woodworking II Woodworking III Woodworking IV	

* Provides *COLLEGE CREDIT* through Dual Enrollment, AP or Project Lead The Way (PLTW)
$ Satisfies the **FINANCIAL LITERACY** graduation requirement
♦ Satisfies the **TECHNOLOGY EDUCATION** graduation requirement
Meets the **Advance Technology Credit**

Completer Programs:

The Career and Technology Education (CTE) Program Completer List approved by Frederick County Public Schools Career and Technology Education Curricular Office and the Maryland State Department of Education is on the following page. Each program lists the courses that students must complete in order to meet the CTE career completer high school graduation requirement. The number of credits and the courses within a program are required by the Maryland State Department of Education. Students who complete their chosen program should be prepared for employment in that area or a related field, post-secondary education, or both.

<u>High School Graduation</u> - <u>CTE Completer Programs</u>

Choose one or more

Business Administration

Required Courses
Introduction to Business **$**
Accounting I
Microsoft Certification Training I **$**
Microsoft Certification Training II

Business Management

Required Courses
Introduction to Business **$**
Accounting I
Microsoft Certification Training I **$**
Management & Entrepreneurship **$**

Finance & Accounting

Required Courses
Introduction to Business **$**
Accounting I
Accounting II
Management & Entrepreneurship **$**

Computer & Information Sciences

Required Courses
Foundations of Computer Science ♦
AP Computer Science Principles *
AP Computer Science *
Comp Sci. College Course or Internship *

Project Lead The Way - PLTW

Required Courses
Intro. to Engineering Design - IED ♦*
Principles of Engineering - POE *
Digital Electronics - DE *
Civil Engineering & Architecture CEA *
Engineer Design & Development EDD *

Agriculture - Animal Science

Required Courses
Agriculture Science & Technology **$**
Pre-Vet, Small Animal Care
Pre-Vet, Large Animal Care
Forestry/WL or Ind. Study or Ag. Work

Agriculture - Mechanics

Required Courses
Engine & Power Technology I
Engine & Power Technology II
Wood & Metal Structures
Advance Mechanics

Horticulture

Required Courses
Agriculture Science & Technology **$**
Horticulture/Floriculture I
Horticulture/Floriculture II
Hort./Flor. III or Ind. Study or Forestry/WL

Woodworking

Required Courses
Woodworking I
Woodworking II
Woodworking III
Woodworking IV

Child Development

Required Courses
Child Development I
Child Development II
Child Development III
Ind. Living **$** or Mentor/Intern.

Career Research & Development

Required Courses
Intro. To Career Research & Development **$**
Adv. Career Development, Prep.& Transition **$**
Work Study *(2 credits)*
Work Study / Youth Apprenticeship

* Provides *COLLEGE CREDIT* through Dual Enrollment, AP or
Project Lead The Way (PLTW)

$ Satisfies the **FINANCIAL LITERACY** graduation requirement

♦ Satisfies the **TECHNOLOGY EDUCATION** graduation requirement

Meets the **Advance Technology Credit**

**ACCEPT THE CHALLENGE AND CHOOSE MORE THAN
ONE COMPLETER**
High school courses will be offered pending sufficient enrollment.