

Welcome to



Lake Travis High School

Topics to be Discussed...

- **Alternating Block Schedule**
- **Graduation Requirements**
- **Advanced Courses & Honors Criteria**
- **Core Class Sequence & Technology Credit**
- **Schedule Change Policy**
- **Important Dates**
- **Course Catalog & Course Selection Sheet**
- **Planning Ahead**
- **Four Year Plan**
- **Institutes of Study**

The 4x4 Alternating Block Schedule...

4x4 Alternating Block

- Four 90 min classes on “A” days
- Four 90 min classes on “B” days
- Opportunity for 8 credits/yr

What your schedule might look like...

Jenny Freshman

"A" Day				"B" Day			
1st	2nd	3rd	4th	1st	2nd	3rd	4th
WORLD GEOGRAPHY	GIRLS ATHLETICS	BIOLOGY PRE-AP	SPANISH 2	ENGLISH 1	GIRLS ATHLETICS	GEOMETRY PRE-AP	INTRO TO ENGINEERING DESIGN

School Day: 8:45 – 3:45 *(rough estimate...)*

Alternating Block Schedule...

MON	TUES	WEDS	THURS	FRI
A	B	A	B	A
B	A	B	A	B

DOUBLE-BLOCKED COURSES

*meet every day for 90 minutes

- AP Biology
- AP Calculus BC (includes AB)
- AP Chemistry
- AP Environmental Science
- Athletic Training
- Band
- Baseball/Softball
- Basketball
- Cavalettes
- Varsity Soccer
- Geometry/MMA
- ESOL 1 & 2
- Extended Algebra 1
- Football
- Varsity Golf
- PALS 1 & 2
- Reading 1 & 2
- Spanish for Native Speakers 1 & 2
- Swimming
- Varsity Tennis
- Volleyball
- Adv. Architectural Design

Graduation Requirements

Lake Travis Graduation Requirements (students who entered grade 9 in 2007 and thereafter*)			
Curriculum Area	<i>Recommended Program</i>	<i>Distinguished Achievement Program</i>	<i>Lake Travis Scholar Program</i>
English ¹	4 credits	4 credits	4 credits
Math ²	4 credits	4 credits	4 credits
Science ³	4 credits	4 credits	4 credits
Social Studies ⁴	4 credits	4 credits	4 credits
Other Languages	2 credits (same language)	3 credits (same language)	3 credits (same language)
Physical Education ⁵	1 credit	1 credit	1 credit
Health	0.5 credit	0.5 credit	0.5 credit
Communication App ⁶	0.5 credit	0.5 credit	0.5 credit
Technology ⁷	1 credit	1 credit	1 credit
Fine Arts ⁸	1 credit	1 credit	1 credit
Electives	4 credits	3 credits	3 credit
Advanced Measures ⁹	None	4 advanced measures	4 advanced measures**
CAVS In-Service Hours	None Required	None Required	100 hours
GPA			90.0 or higher
Total Credits ¹⁰	26 credits	26 credits	26 credits
State Exams ¹¹	TAKS or STAAR EOC	TAKS or STAAR EOC	TAKS or STAAR EOC

Pre-AP / AP Programs

~ Wider Range

~ Greater Depth

~ Faster Pace

Higher Standards in all areas (grading, work ethic, etc.)

Should be making at least a 90 or higher in the regular course

Can't retake failed exams/quizzes

English

Advanced Path

English 1 Pre-AP

English 2 Pre-AP

AP English 3

AP English 4

Regular Path

English 1

English 2

English 3

English 4

Math

Advanced Path

Algebra 1 (8th Grade)

Geometry Pre-AP

Algebra 2 Pre-AP

Precalculus Pre-AP

AP Calculus AB **or** BC

AP Statistics **or**

Multivariable Calculus

Regular Path

Algebra 1 LTHS

Geometry

Algebra 2 **or** Math Models

Precalculus **or**

Statistics **or** Algebra 3

Science

Advanced Path

Biology Pre-AP

Chemistry Pre-AP

AP Physics B

4th Science

Physics C

AP Biology

AP Chemistry

AP Env. Science

Advanced Animal Science

Regular Path

Biology

Chemistry or IPC

Physics or Chemistry

4th Science

Environmental Studies

Forensics

Anatomy & Physiology

Aquatic Science

Social Studies

Advanced Path

World Geography Pre-AP

AP World History

AP U.S. History **or**

ACC U.S. History

AP Government

AP Economics **or**

ACC Government &

Economics

Regular Path

World Geography

World History

U.S. History

Government

Economics

Summer Reading for Pre-AP W Geo:

- o *Seven Years in Tibet, Heinrich Harrer*

Other Languages

- Spanish 1
- Spanish 2
- Spanish 3
- Spanish 3 PAP
- AP Spanish 4
- AP Spanish 5

- French 1
- French 2
- French 3 Pre-AP
- AP French 4
- AP French 5

- Latin 1
- Latin 2
- Latin 3 Pre-AP
- AP Latin 4
- AP Latin 5

- ASL 1
- ASL 2
- ASL 3

Courses that Count for a Technology Credit

Business Information Management (BIMM)

Digital Imaging Multimedia (DIMM)

Computer Science

Desktop Publishing (Yearbook 3 or Newspaper 3)

Film Production

Graphic Design

Introduction to Engineering Design

Technical Theater 2

Web Technologies

Schedule Change Policy

- 2 week Add / Drop period in May
- Attend 1st week of class
- Request change within first 2 weeks of school
- Approved/Denied based on availability
- Level changes within 6 wks (PAP/AP to regular)
- No changes outside of drop periods
- No teacher changes

Important Dates...

Wednesday January 25 – 5:30 – Cavalier Showcase

LTMS Parent/Student course selection meetings

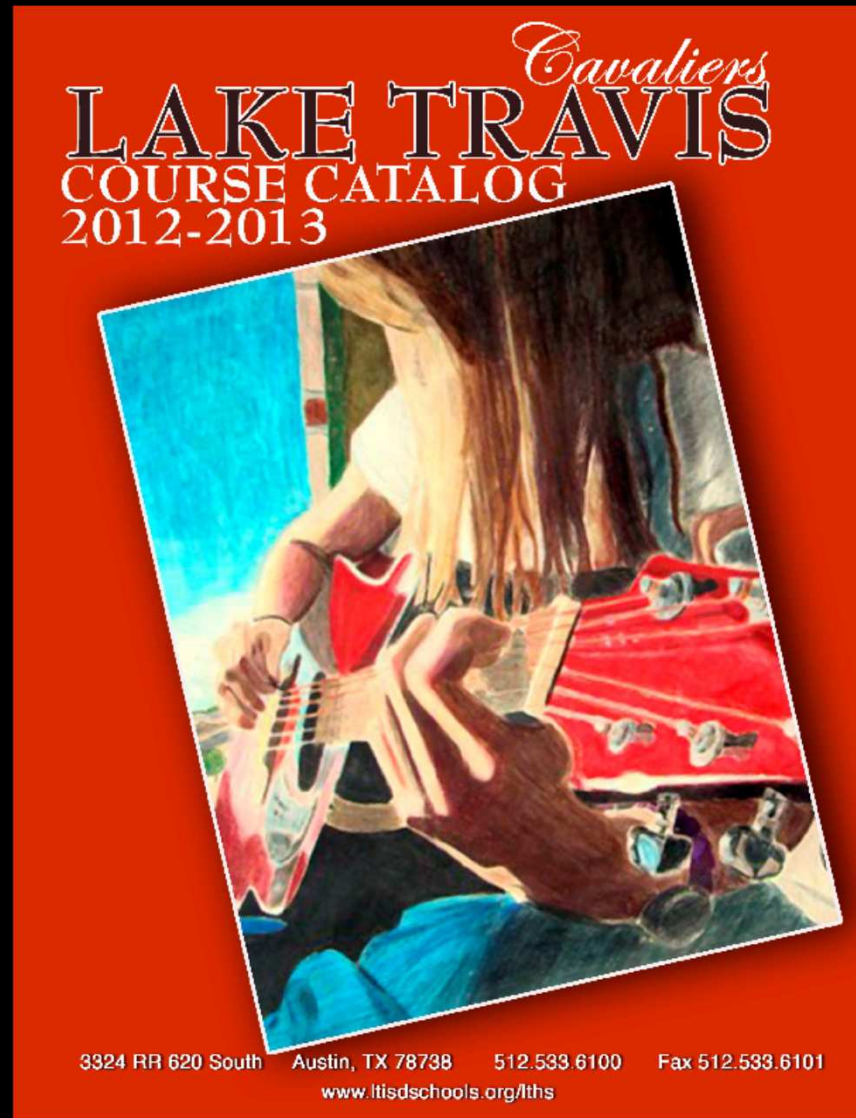
January 30 – February 3

HBMS Parent/Student course selection meetings

February 6 - 10

Your appointment time has been mailed home to your parents and your 8th grade counselor has the date and time, too.

2012-2013 Course Catalog



Planning Ahead for College

Important Factors for Admission:

- ~ Grades/Course Selection
- ~ Testing
- ~ Extracurricular Activities
- ~ Community Service

4 Year Plans

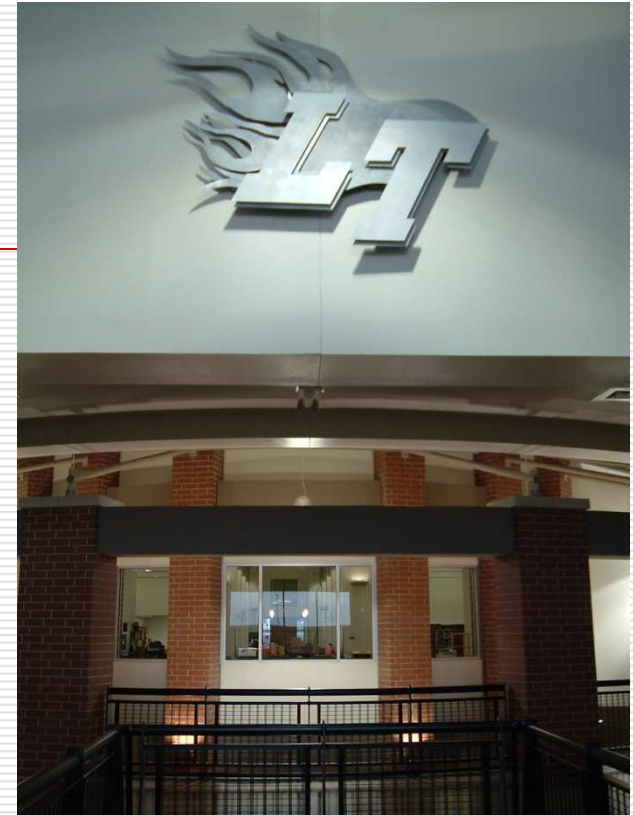
The screenshot shows the Career Cruising website in a Microsoft Internet Explorer browser window. The browser's address bar displays the URL <https://www.careercruising.com/>. The website's navigation menu includes links for WELCOME, PRODUCTS, QUICK TOUR, SUPPORT, and ABOUT US. A user login section is visible with fields for Username and Password, and a "Start Career Cruising" button. A sidebar on the left contains sections for "Questions & Answers", "Likes", "Dislikes", "Advice", and "A Day in the Life". The main content area features a news item dated 11/2/2010 about a partnership with the University of Waterloo. Below the news item, there are two columns: "What is Career Cruising?" which describes the platform as an industry-leading online career guidance system, and "Our Products" which lists four tools: Career Cruising, Course Planner, Application Planner, and Network, each with a "Learn More" link.

You will create your plan through Career Cruising later this Spring

INSTITUTE OF BUSINESS, FINANCE, & MARKETING
INSTITUTE OF FINE ARTS Institute of Math, Engineering, & Architecture
Institutes of Study
INSTITUTE OF ADVANCE SCIENCE & MEDICINE
Institute of Veterinary Science & Agriculture
INSTITUTE OF HUMANITIES, TECHNOLOGY, & COMMUNICATION

Designing High School for Postsecondary Preparation

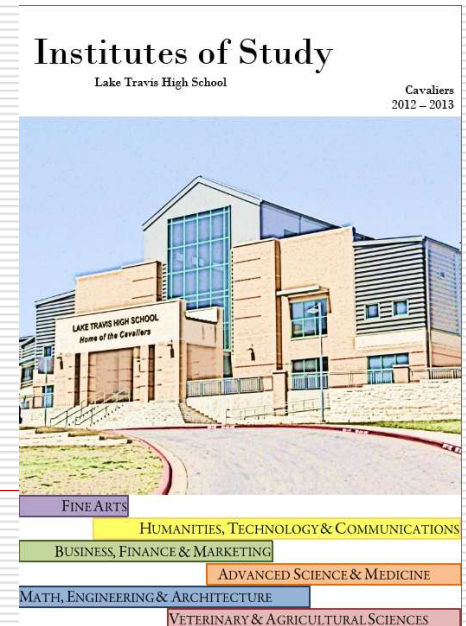
Sheri Bonds
College and Career Readiness Coordinator



LAKE TRAVIS
INDEPENDENT SCHOOL DISTRICT
Every heart. Every mind. Every day.

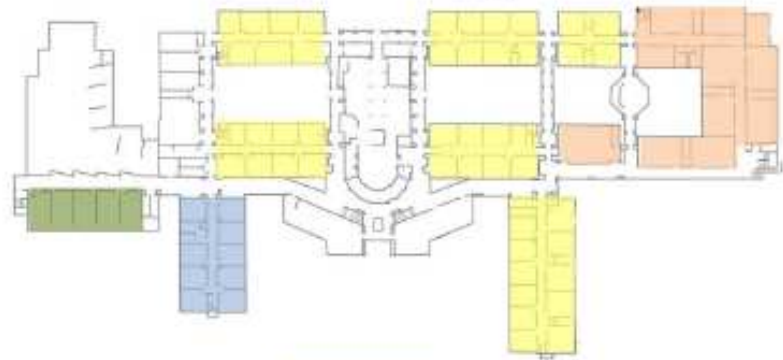
LTHS INSTITUTES OF STUDY

- ❑ **Advanced Science & Medicine**
- ❑ **Veterinary & Agricultural Science**
- ❑ **Math, Engineering & Architecture**
- ❑ **Business, Finance & Marketing**
- ❑ **Fine Arts**
- ❑ **Humanities, Technology & Communications**





Lake Travis High School 1st Floor



Lake Travis High School 2nd Floor



LTHS INSTITUTES OF STUDY

- ❑ Students are asked to choose an Institute & pursue an area of study in depth.
- ❑ Students are encouraged to select a coherent sequence of courses from each Institute.



Institute of Business, Finance & Marketing



The Institute of Business, Finance & Marketing allows students to study a variety of courses including Accounting, Global Business and Advertising as they prepare to become businessmen and women. Students taking upper level High School of Business™ courses will receive Honors credit while our School Store Operations students run the CavZone and Main Street Java. Career Preparation guides students throughout the year as they work a part-time job in this year-long course.

Programs of Study

Business Management & Finance

Recommended Course Sequence:

- Principles of Business, Finance & Marketing / Money Matters
- Global Business / Business Law
- Accounting I
- Entrepreneurship
- Career Preparation I & II

High School of Business™

Recommended Course Sequence:

- Principles of Business, Finance & Marketing/Money Matters
- Principles of Marketing* / Principles of Finance*
- Principles of Management* / Business Strategies*

*Honors Course



Students earn top scores in country for HSB

Each program of study requires the completion of one of the following technology application courses:

- Business Information Management**
- Computer Science
- Digital Interactive Media**
- Web Technologies**

**Courses can be taken as a Program of Study in Business Technology Applications



Students at Texas DECA Competition



Marketing

Recommended Course Sequence:

- Principles of Business, Finance & Marketing / Money Matters
- Sports & Entertainment Marketing
- Retailing & E-tailing / Fashion Marketing
- Advertising & Sales Promotion
- School Store Operations
- Career Preparation



Students in School Store Operations



Field Work & College Connections

- > Field Work: Site Visits / Job Shadowing / Internships
- > Field Work: Work-Based Learning through Career Preparation
- > Field Work: Leadership opportunities through DECA
- > College Connection: Articulated college credit within Business & Marketing Sequences

Institute of Math, Engineering & Architecture



Lake Travis HS earned the distinction of being a Project Lead the Way™ Model School in 2009-10. The PLTW curriculum offers a strong foundation in the Institute of Math, Engineering & Architecture. Students have the opportunity to specialize in several fields of engineering including Software and Architecture. Math is emphasized and integrated in these courses.

Programs of Study

Engineering – PLTW™

Recommended Course Sequence:

- Introduction to Engineering Design
- Principles of Engineering[†]
- Digital Electronics[†]
- Civil Engineering & Architecture[†]
- Engineering Design & Development
- Robotics & Automation*

*Not a PLTW course, but recommended course for engineering students

[†]Honors Course



Engineering students visit National Instruments

PLTW™ – Comprehensive Curriculum

- Project/Problem-Based Curriculum
- Integrates National Standards
- Supported by Comprehensive Professional Development for Teachers

Each program of study requires the completion of one of the following technology application courses:

- | | |
|---------------------------------|------------------|
| Business Information Management | Computer Science |
| Digital Interactive Media | Web Technologies |

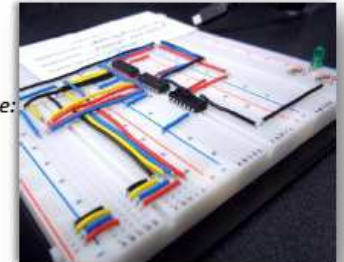
Software Engineering

Recommended Course Sequence:

- Computer Science I **
- Digital Electronics**
- Computer Science II AP
- Computer Science III[†]

**Course may be first in sequence

[†]Honors Course



LTHS student's electronics assignment



Architecture

Recommended Course Sequence:

- Introduction to Engineering Design
- Architectural Design
- Civil Engineering & Architecture[†]
- Advanced Architectural Design[†]

[†]Honors Course



Advanced Math

- Algebra I, II
- Geometry
- AP Calculus AB
- AP Calculus BC
- AP Statistics
- Multivariable Calculus^{††}

^{††}Advanced Honors

Field Work & College Connections

- Field Work: Site Visits / Job Shadowing / Internships / Senior Project Portfolio Development
- Field Work: Lecture Series, Competition
- College Connection: Articulated college credit opportunities within Engineering, Software & Architecture Sequences

Institute of Veterinary & Agricultural Science



The Institute of Veterinary & Agricultural Science has three areas of study: Veterinary & Animal Science, Horticulture & Landscape Design, and Agricultural Mechanics. Students may choose a course of study within the classroom as well as participate in a Supervised Agricultural Experience (SAE) within the Lake Travis FFA chapter. Students are encouraged to become certified veterinary technicians, raise an animal project, utilize the greenhouse for plant propagation, or hone their metal working skills in the metal shop.

Programs of Study

Veterinary & Animal Science

Recommended Course Sequence:

Principles of Agriculture, Food & Natural Resources
 Livestock Production
 Veterinary Medical Applications
 Advanced Animal Science*
 Career Preparation

*1 credit of Science (4th year for Recommended or Distinguished plans)



Lake Travis FFA students exhibiting their lambs

Each program of study requires the completion of one of the following technology application courses:

Business Information Management	Computer Science
Digital Interactive Media	Web Technologies



Horticulture & Landscape Design

Recommended Course Sequence:

Principles of Agriculture, Food & Natural Resources
 Horticulture / Landscape Design & Turf Grass Management
 Principles & Elements of Floral Design**
 Wildlife, Fisheries & Ecology Mgmt / Range & Ecology Mgmt
 Career Preparation

**1 credit of Fine Arts



Agricultural Mechanics

Recommended Course Sequence:

Principles of Agriculture, Food & Natural Resources
 Agricultural Mechanics & Metal Technologies
 Agricultural Power Systems
 Agricultural Facilities Design & Fabrication
 Career Preparation



Field Work & College Connections

- Field Work: Various Site Visits including Veterinary Clinics
- Field Work: Job Shadowing, Internships
- Field Work: Leadership opportunities through FFA
- College Connection: Articulated college credit opportunities within Agricultural Mechanics Sequences

Institute of Advanced Science & Medicine



The Institute of Advanced Science & Medicine allows a variety of options for elective courses as well as 4th year science options. A new program of study this year is the Health Science Technology sequence of courses. Now, not only will students be able to study Anatomy & Physiology as an elective, but with the Health Science courses, they will have an opportunity to further their knowledge of healthcare and the human body.

Programs of Study

Health Science Technology

Recommended Course Sequence:

- Principles of Health Science *New in 2012-2013*
- Medical Terminology / Medical Microbiology *New in 2013-2014*
- Health Science *New in 2014-2015*
- Practicum in Health Science *New in 2015-2016*



Biology

Biology
Medical Microbiology
Anatomy & Physiology
Biology AP



Chemistry

Chemistry
Lab Management
AP Chemistry



LTHS Students at UT Marine Science Institute at Port Aransas

Environmental Sciences

Environmental Studies
Aquatic Science
Field Studies
AP Environmental Science



Physics

Physics
AP Physics B
AP Physics C



Field Work & College Connections

- > Field Work: Field work at local and regional environmental sites
- > Field Work: Virtual learning through distance learning opportunities
- > College Connection: Advanced Placement college credit opportunities in: Biology, Chemistry, Physics B, Physics C and Environmental Science

Institute of Humanities, Technology & Communications



Within the Institute of Humanities, Technology & Communications, students have the opportunity to pursue a better understanding of liberal arts, foreign language, communication and film production to name a few. As students choose an avenue or two to pursue, they have options that include taking Advanced Placement courses and exams as well as entering their films into the South by Southwest (SXSW) Festival and Conference.

Programs of Study

Humanities

Humanities
AP English (Language & Literature)
AP Social Sciences (World/US History; Government; Economics)
AP Art History
AP European History
AP Human Geography
AP Psychology
GT Independent Study Mentorship (Honors)
Mythology
Psychology / Sociology
Language Studies (Spanish, Latin, French, ASL)



Social Sciences

AP Government
AP Macroeconomics
AP Psychology
Psychology / Sociology



Student DIM Project

Advanced Technology

Business Information
Management
Digital Interactive Media
Pre-AP Computer Science I
AP Computer Science II
Computer Science III (Honors)
Web Technologies
Technology Assistant

Film Production

Creative Writing
Screenwriting
Sociology Through Film
Film History & Aesthetics
Film Production
Advanced Film Production



Field Work & College Connections

- Field Work: Varies by area of study
- College Connections: Articulated college credit in Computer Science and Film Production courses, Advanced Placement college credit opportunities in select courses
- Capstone Activities: Internship / Senior Project / Portfolio Development / Student Presentation
- LTHS Film Festival & Awards Ceremony

Institute of Fine Arts



Within the Institute of Fine Arts, students can exercise both their creative minds and bodies. Studying fine arts allows students express themselves through dance, music, journalism, theatre and the arts. Whether a student wants to join the dance team, perform in the school musical, or write for the school paper, there are a options for everyone.

Programs of Study

Journalism

Newspaper
Yearbook
Journalism
Creative Writing



LTHS Photography Student

Public Speaking

Competitive Speaking
Debate
Oral Interpretation
Professional Communications



Students performing *Cyrano de Bergerac*

Theatre

Theatre Arts
Advanced Theatre Production
Technical Theatre

Dance

Dance – Aerobics*
Dance
LTHS JV Dance Team
Cavalettes Dance Team
Band/Dance Auxiliary
*1 credit of PE



Cavalettes performing at a Lake Travis football game



Student and original artwork

Visual Arts

Art
~ Drawing & Painting
~ Ceramics & Sculpture
AP Art Portfolio
AP Art History
Graphic Design
Digital Photography
Principles of Floral Design

Music

Band – Symphonic and Concert
Band – Marching
String Orchestra – Symphonic and Concert
Jazz Ensemble
Concert Choir
Show Choir
Men's Chorus
Women's Chorus
Mixed Chorale
Music History
Music Theory I
AP Music Theory



Lake Travis award winning Marching Band

Field Work & College Connections

- Field Work: Varies by area of study
- College Connections: Dual Credit in select courses / Advanced Placement college credit opportunities
- Capstone Activities: Portfolio Development

Articulation Agreements

LTHS Course	LTHS Credit	Post-Secondary / College Course	Credit
Accounting 1	1.0	ACNT 1403 Introduction to Accounting I	4.0
Advanced Film Production	1.0	FLMC 1304 Lighting for Film or Video	3.0
Ag Mechanics & Metal Technologies	1.0	WLDG 1407 Intro to Welding AND WLDG 1417 Intro to Layout & Fabrication	4.0 4.0
Ag Facilities Design & Fabrication	1.0	WLDG 1428 Intro to Shielded Metal Arc Welding AND WLDG 1425 Intro to Oxy-fuel Welding & Cutting	4.0 4.0
AP Computer Science 2	1.0	ITSE 2321 Object-Oriented Programming	3.0
Architectural Design	1.0	DFTG 1417 Architectural Drafting-Residential	4.0
Business Information Management	1.0	ITSC 1309 Integrated Software Applications	4.0
Digital Interactive Media	1.0	ARTC 1402 Digital Imaging	4.0
Digital Electronics	1.0	CETT 1425 Digital Fundamentals	4.0
Entrepreneurship	1.0	BUSG 2309 Small Business Management	3.0
Film Production 1	1.0	RTVB 1305 Intro to Television Technology AND RTVB 1321 TV Field Production	3.0 3.0
Fashion Marketing	0.5	FSHD 1302 Introduction to Fashion	3.0
Global Business	0.5	IBUS 1305 Introduction to International Business and Trade	3.0
Money Matters	0.5	BUSG 1304 Introduction to Financial Advising: Personal Finance	3.0
Principles of Marketing	1.0	MRKG 1311 Principles of Marketing	3.0
Retailing & E-tailing	0.5	MRKG 1302 Principles of Retailing	3.0
Introduction to Engineering Design	1.0	Engineering course credit available at Texas State University	Varies
Principles of Engineering	1.0	Engineering course credit available at Austin Community College	Varies
Digital Electronics	1.0	Engineering course credit available at Texas State University	Varies

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