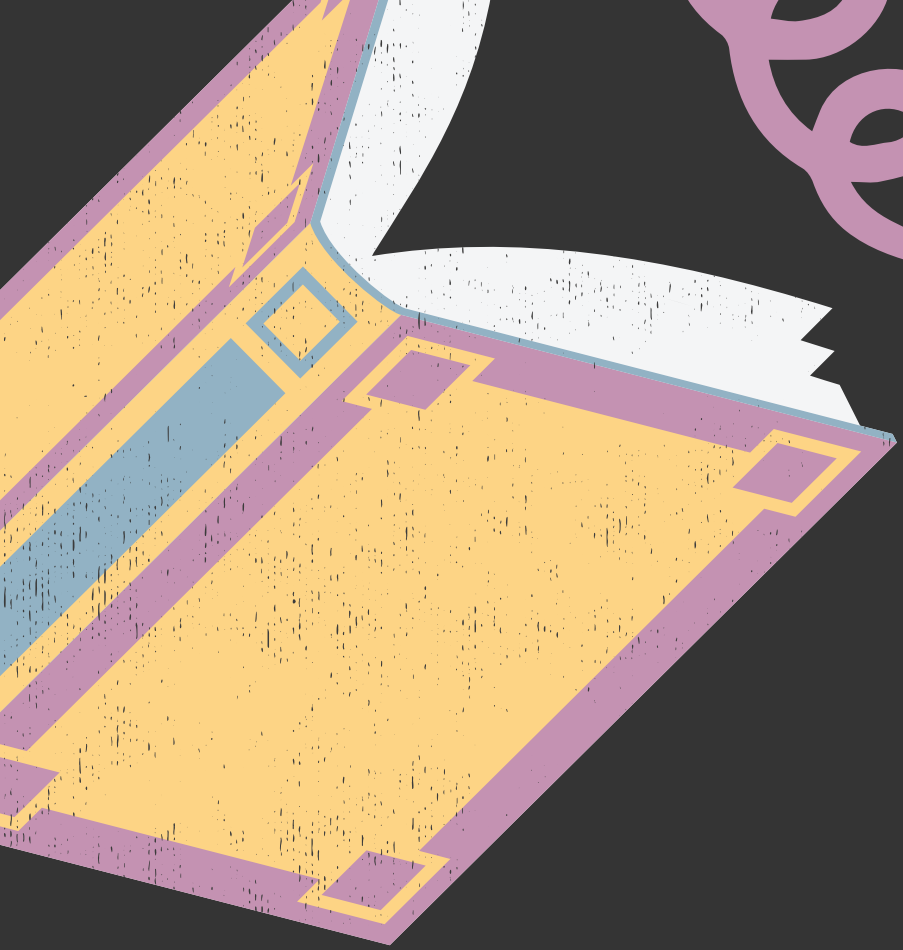


COLLEGE 101

Anatomy of A Degree

Navigating the US
College System

ALICIA M. SCHULZE





Submit Questions Live



the activity:

Graduate High School

Endorsements

Requirements

Electives

Structured Time

Sports/Clubs

High School Degree

4 years

9th grade = Freshman Year

10th grade = Sophomore Year

11th grade = Junior Year

12th grade = Senior Year

Academic Core Requirements

- English every year
- Social Studies every year
- etc.

There's a Path
For Everyone



Learning Objectives

01

High
School
Diploma

02

Community
College
Associates
Degree*
AA/AS/AAS

*optional

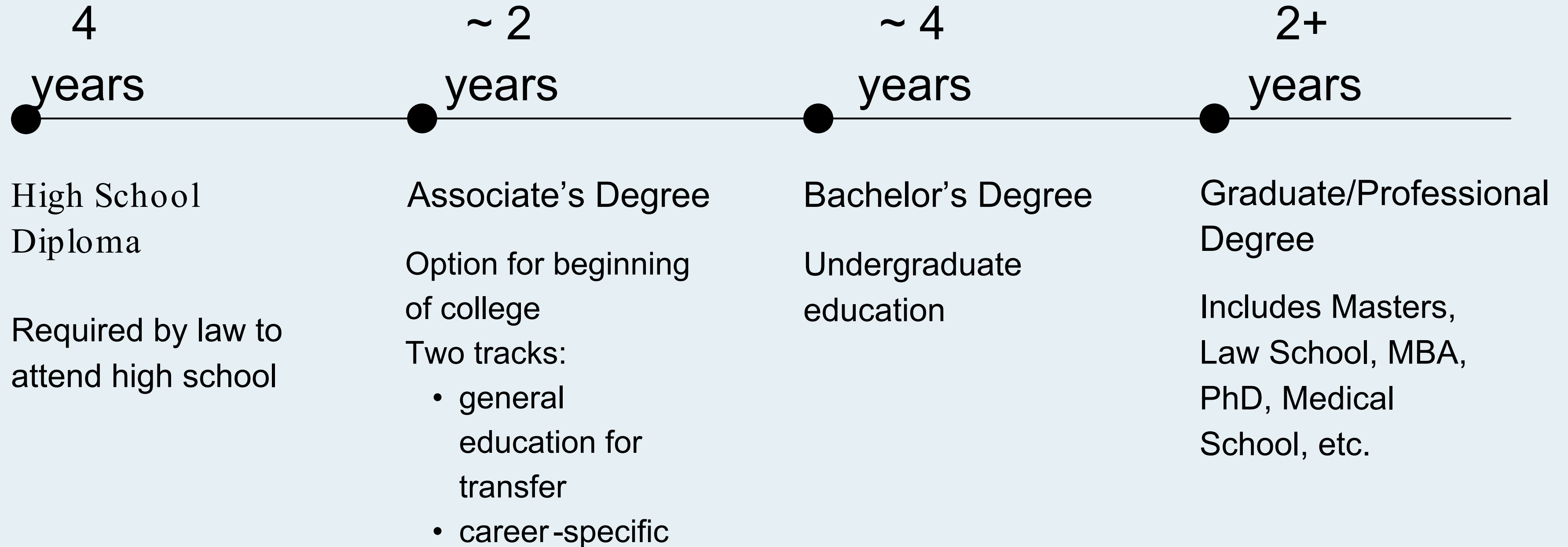
03

Undergraduate
College &
University
Bachelor's
Degree

04

Graduate
&
Professional
Degree
Master's
MBA
JD
MD/DO
PhD

Timeline



What's in a name?

College*

Typically smaller liberal arts with fewer majors. Very student focused

University*

Big or small
Includes:

- College of Business
- College of Engineering
- College of Arts, etc.

Often offers Graduate school

Community College

2-year school offering general Associate's degree for transfer to a 4-year school or industry-specific education

Technical School

Skills-focused
2 years or less
Expensive compared to Community College

*College and University are often used interchangeably

Anatomy of a Degree:

Associate's Degree

Bachelor's Degree

Master's Degree

Ph.D.

Typical Semester = 12-18

credit hours (about 4-6

classes)

01 Credit Hour

02 Major

03 Minor

04 Double Major

05 Dual Degree

the activity:

Building a Degree

Liberal Arts – broad-based education
- Designed to provide critical thinking and communication skills no matter the career

- Engineers need to understand human behavior and society
- Scientists need to understand how to communicate
- Managers need basic mathematical skills

A purple rectangular box with a yellow border containing the text "What does a Liberal Arts Education Mean?". The box is positioned on the right side of the slide, overlapping the main text area.

What does a
Liberal Arts
Education
Mean?

Requirements

Students are required to take different types of classes, creating a Liberal Arts Education

General
Education

Major
Requirements

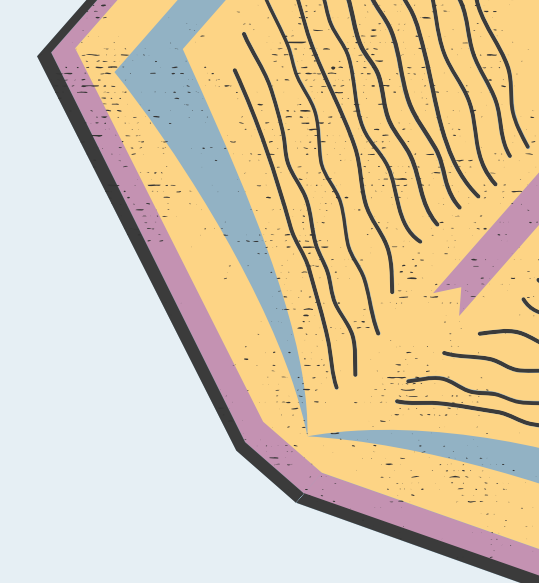
Electives

Pre-
Requisites

Different Majors May Require Different Courses



the sample Case Study: The University of Texas At Dallas



Bachelor of
Science in
Biomedical
Engineering
128 credit
hours

I. Core Curriculum Requirements: 42 semester credit hours²

Communication: 6 semester credit hours

RHET 1302 Rhetoric³

ECS 3390 Professional and Technical Communication³

Or select any 6 semester credit hours from **Communication Core**² courses (see advisor)

2 English classes

Mathematics: 3 semester credit hours

MATH 2417 Calculus I⁴

Or select any 3 semester credit hours from **Mathematics Core**² courses (see advisor)

1 Math class

Life and Physical Sciences: 6 semester credit hours

PHYS 2325 Mechanics⁵

PHYS 2326 Electromagnetism and Waves⁵

Or select any 6 semester credit hours from **Life and Physical Sciences Core**² courses (see advisor)

2 Science classes

the sample Case Study: The University of Texas At Dallas

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from **Language, Philosophy and Culture Core**² courses (see advisor)

1 Humanities class

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from **Creative Arts Core**² courses (see advisor)

1 Creative class

American History: 6 semester credit hours

Select any 6 semester credit hours from **American History Core**² courses (see advisor)

2 History classes

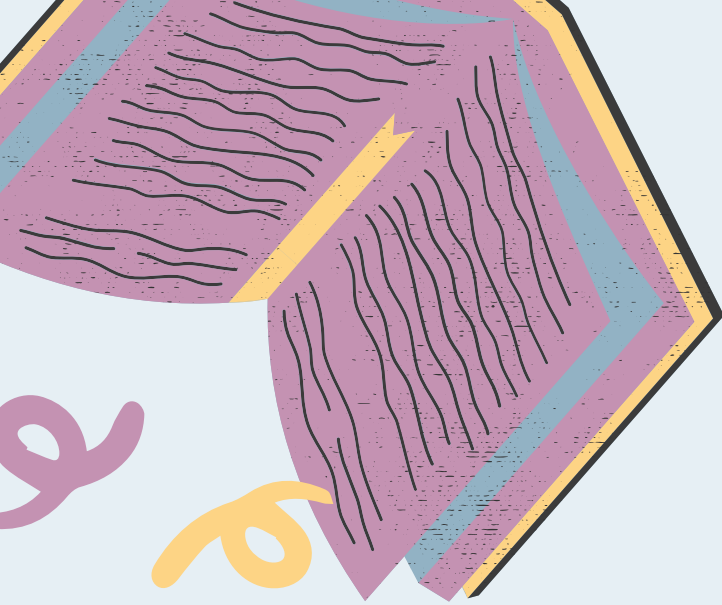
Government/Political Science: 6 semester credit hours

GOVT 2305 American National Government

GOVT 2306 State and Local Government

Or select any 6 semester credit hours from **Government/Political Science Core**² courses (see advisor)

2 Government classes



the sample Case Study: The University of Texas At Dallas

Social and Behavioral Sciences: 3 semester credit hours

1 Social Science class

Select any 3 semester credit hours from **Social and Behavioral Sciences Core**¹ courses (see advisor)

Component Area Option: 6 semester credit hours

2 extra classes

MATH 2417 Calculus I⁴

MATH 2419 Calculus II⁴

PHYS 2125 Physics Laboratory I⁵

Or select any 6 semester credit hours from **Component Area Option Core**² courses (see advisor)



II. Major Requirements: 86 semester credit hours⁶

Major Preparatory Courses: 21-25 semester credit hours beyond Core Curriculum

CHEM 1311 General Chemistry I

CHEM 1111 General Chemistry Laboratory I

CHEM 1312 General Chemistry II

CHEM 2324 Introductory Organic Chemistry for Engineers

BIOL 2311 Introduction to Modern Biology I

BIOL 2111 Introduction to Modern Biology Workshop I

BIOL 2281 Introductory Biology Laboratory

PHYS 2125 Physics Laboratory I⁵

PHYS 2126 Physics Laboratory II

PHYS 2325 Mechanics⁵

PHYS 2326 Electromagnetism and Waves⁵

RHET 1302 Rhetoric³

MATH Sequence - Students may choose one of the following sequences:

I. **MATH 2417** Calculus I⁴

and **MATH 2419** Calculus II⁴

and **MATH 2420** Differential Equations with Applications

or

II. **MATH 2413** Differential Calculus⁴

and **MATH 2414** Integral Calculus⁴

and **MATH 2415** Calculus of Several Variables

High School Class Impact

UTD College of Engineering:

“Engineering education requires a strong high school preparation.”

- at least one-half year in trigonometry
- at least one year each in algebra, pre-calculus, plane geometry, chemistry, and physics,

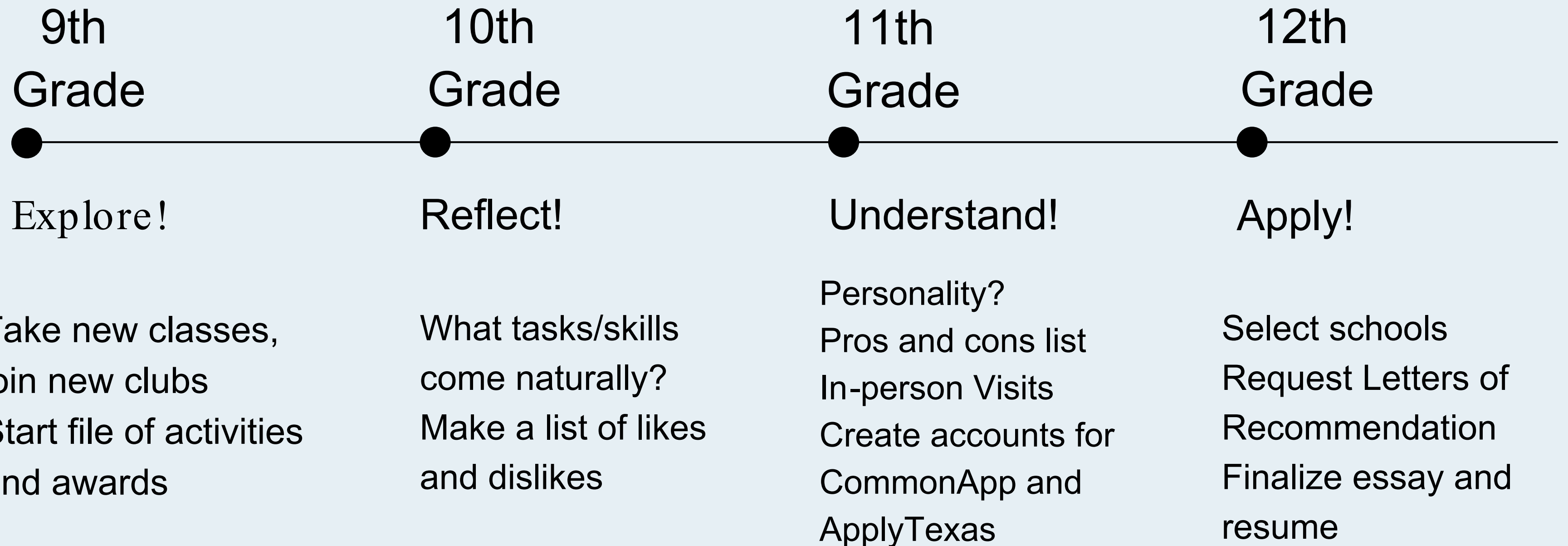
Preparation to move immediately into demanding college courses in calculus, calculus-based physics, and chemistry for science majors.

It is also essential that pre- engineering students have the competence to read rapidly and with comprehension, and to write clearly and correctly.”



Recommendations in High School

- Have an Open Mind





The Biggest Lesson:

It Depends!
Every College is
Different



Things to consider:

Higher Education Institutions serve different purposes and provide diverse opportunities.

Not every school is best for every student.

Class Size

Size of general education classes vs. size of major classes

Location

City, Suburbs, Rural, Proximity to Amenities, Community, Culture, Transportation

Things to consider:

Higher Education Institutions serve different purposes and provide diverse opportunities.

Not every school is good for every student.

Programs Offered

What do you want to study? Flexibility of programs

Connection to Industry

Career Centers, Internships, Co-op Programs

Cost!

Net-Price Calculator, Amount of Aid/ Scholarships
In-State vs Out-of-State, Public vs Private

Define your purpose

Why are you going to
college?

Think of it as going
through college - a
stepping stone on the
journey

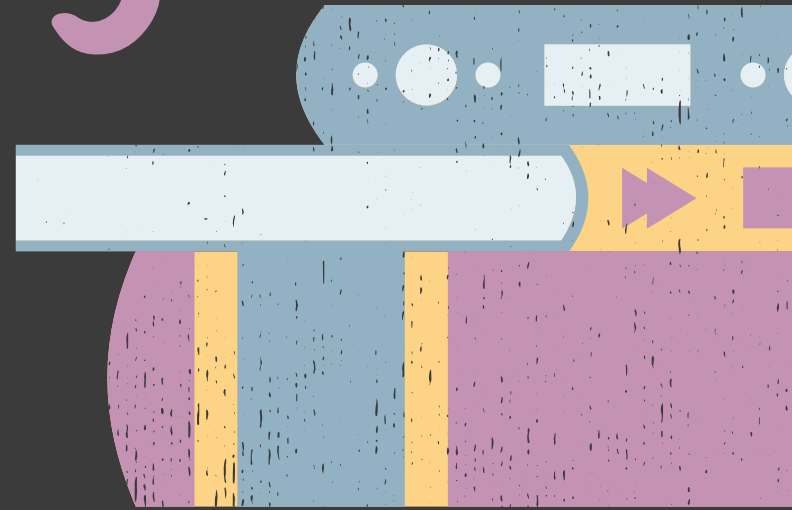
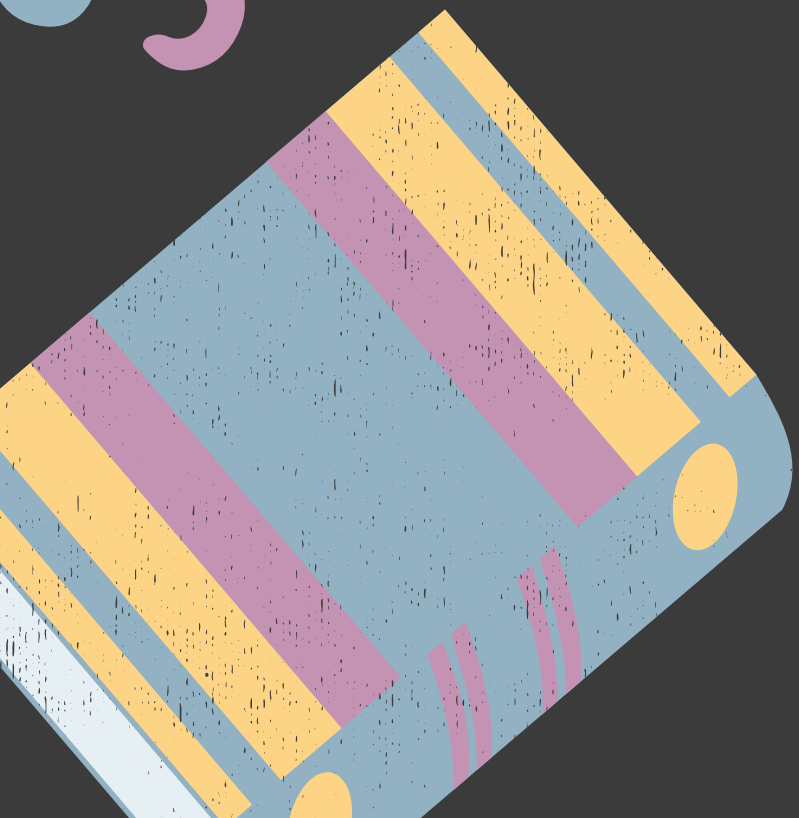
To Get a Job?

To Learn and Grow?

To Meet New People and
Experiences?

It's Expected?

Admissions: Forging a Path



How to Apply:

Application platforms allow you to create one profile to share with multiple colleges. Many applications have fees. Some majors have additional requirements.

ApplyTexas

Most schools in Texas

Common App

Most schools across the U.S.

Elements

High School Record, Tests, Essays, Extracurriculars, Letters of Recommendation. Major-specific requirements

Deadlines

Early, Regular, Rolling

Recommended that students apply to no more than 12-15 schools, preferably less.

Q&A



What GPA Do
I Need for
College?

Scholarships

How to Stand
Out in College
Applications

How Do I
Know?

AP/Dual
Credit &
Admissions

Which School
is The Best?

Grading Scale in
College

You've Been
Accepted!
Now What?!

Resources

BigFuture - CollegeBoard

Collegewise

Ivywise

NetPrice Calculator

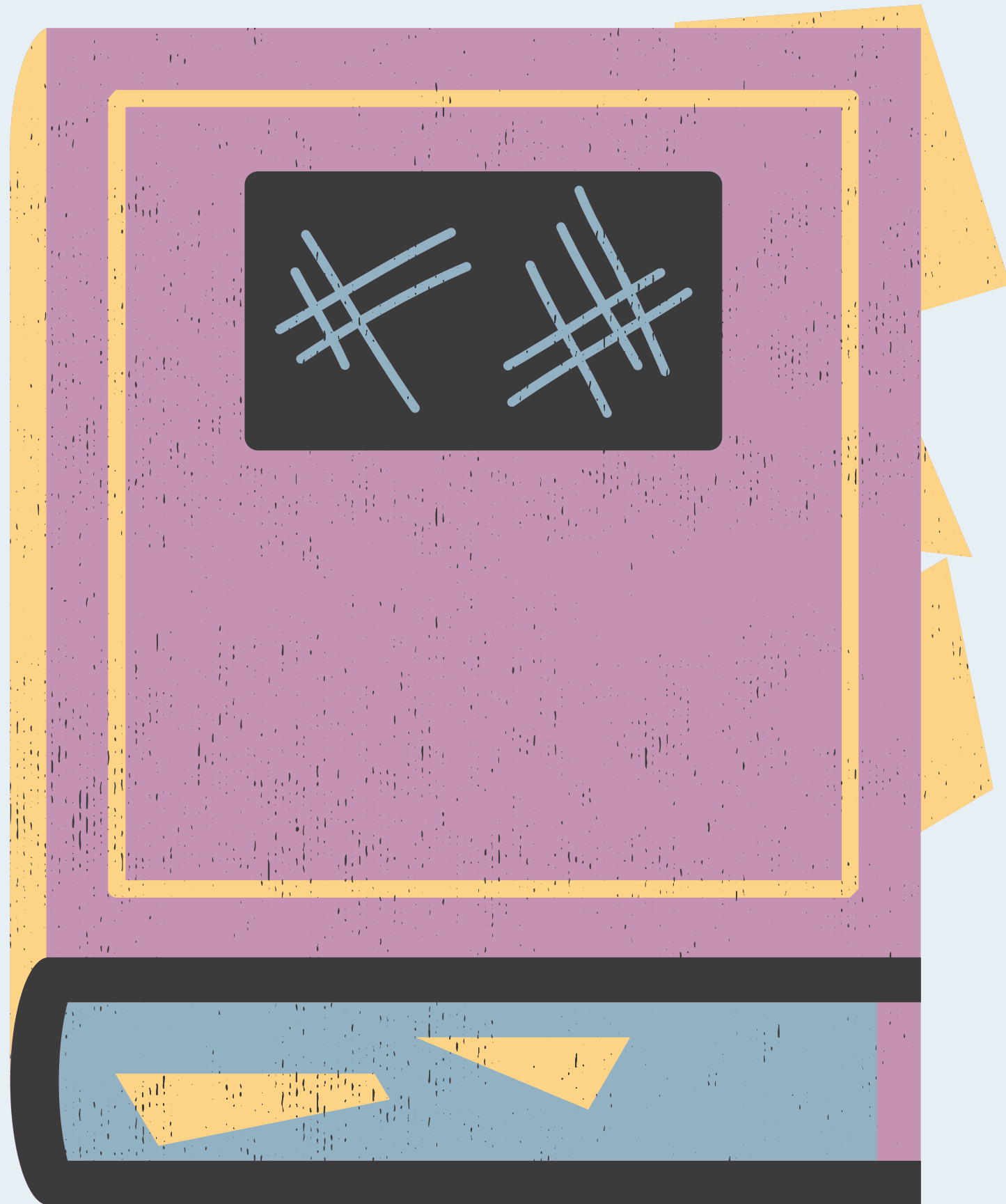
- <https://money.com/estimate-college-prices-tools/>

Scholarships.com

RaiseMe

Fastweb

Local Admissions Representatives



to conclude

It depends!

There is a place for everyone, but every student is different.

You do not have to have everything figured out.

It takes planning, time, and effort.

You get out of it what you put into it.

Know yourself.





Alicia M. Schulze
amschulze@collin.edu

Thank You!