



***Guide to engineering  
as major for High  
Schoolers!***

# How do you decide?

## Ask yourself:

*Do you like to solve problems and think of new ways to do things?*

*Do you wonder how things work and have a desire to learn?*

*Do you enjoy a challenge want to make a difference in the world?*

*Do you have an interest in the challenges facing our world and help people to improve their lives?*

## What do you want to do?

*Do you like working with computers and technology?*

*Are you interested in spaces science?*

*Do you want to create games?*

*Do you want to make new elements?*

*Do you like art, designing or building things?*



# **Major Specific Courses**

- **Computer Engineering**

- **Electrical Engineering**

- **Mechanical Engineering**

- **Aerospace Engineering**

- **Chemical Engineering**

- **Architectural Engineering**

- **Civil Engineering**

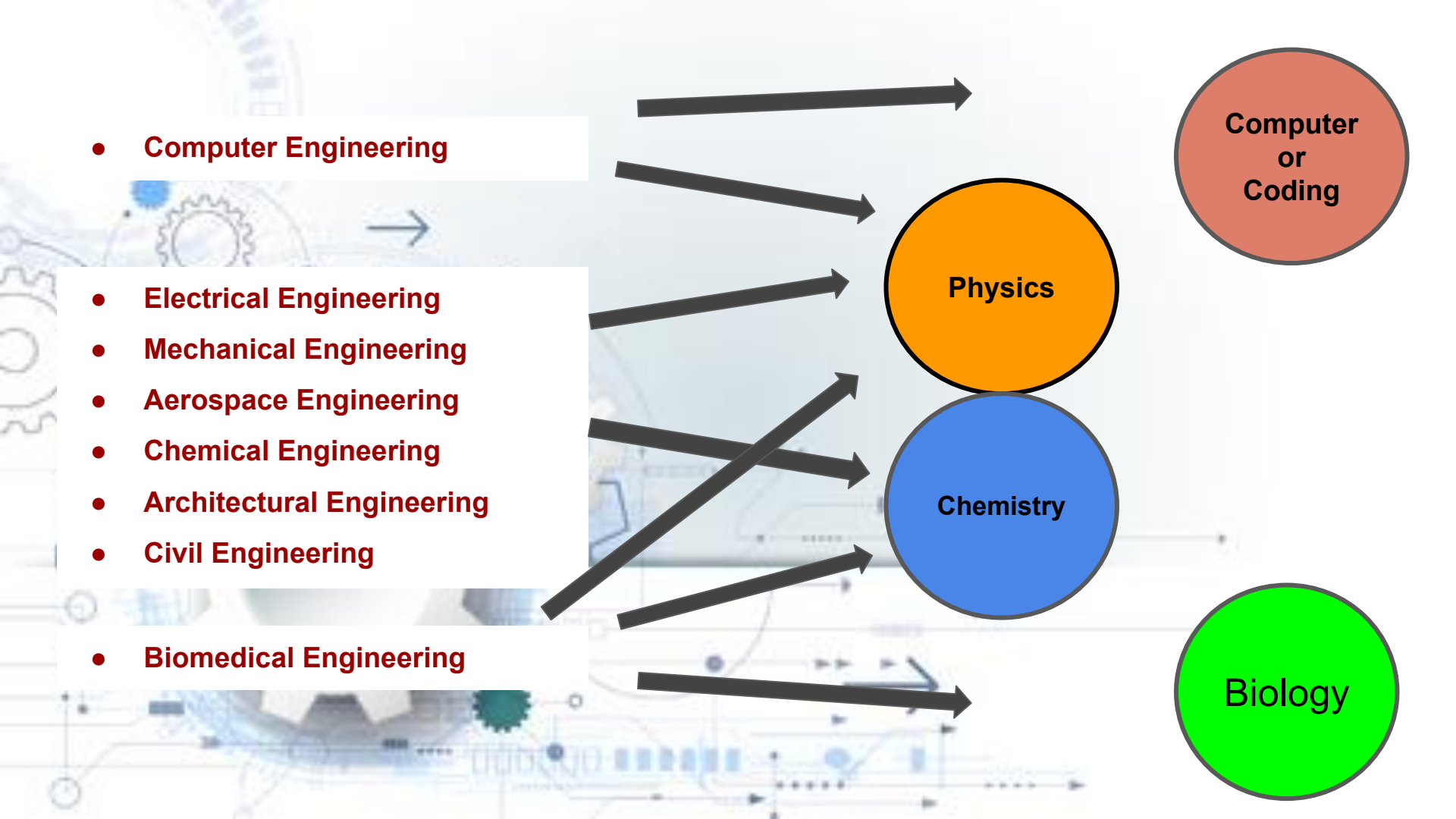
- **Biomedical Engineering**

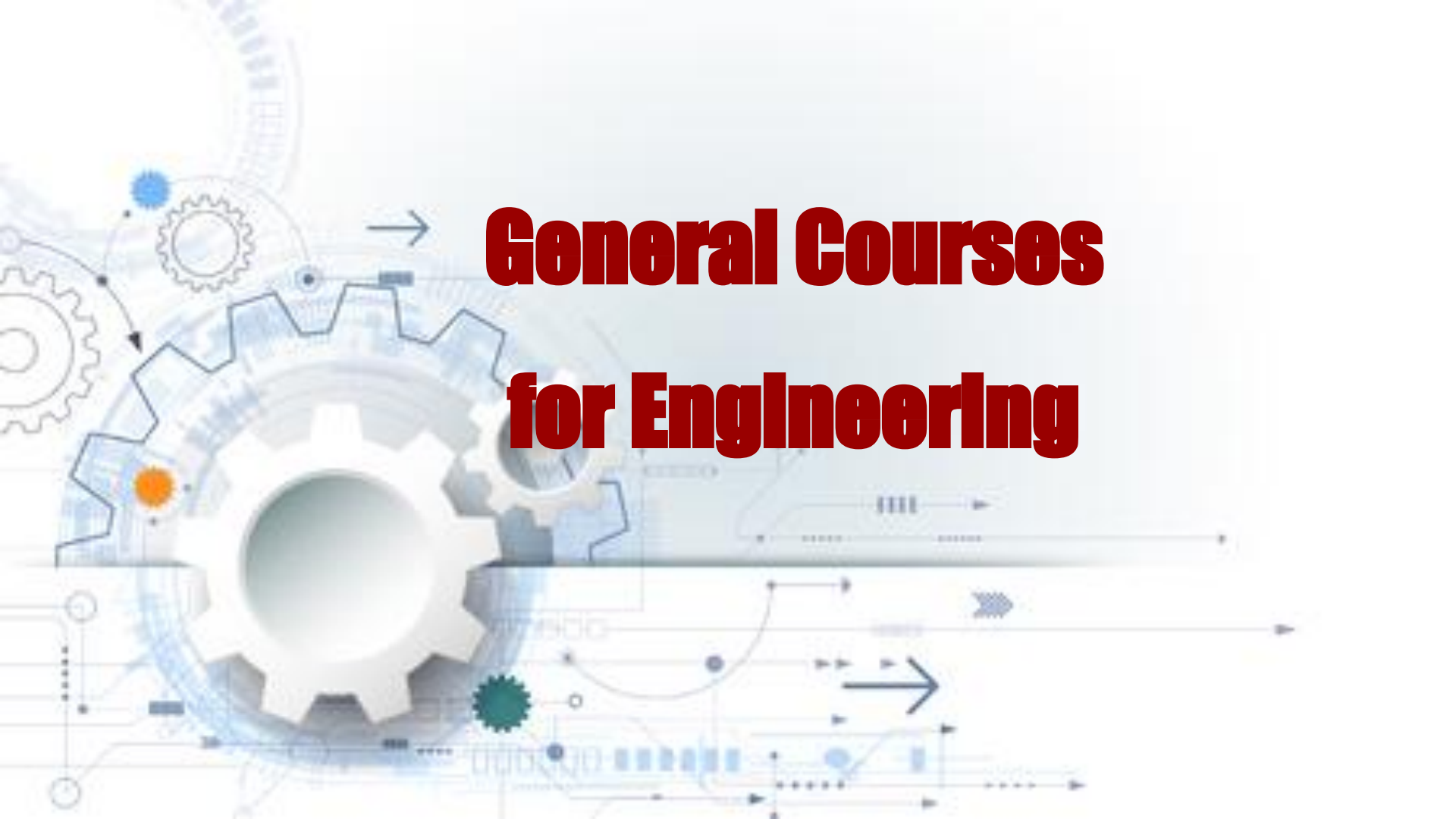
**Computer  
or  
Coding**

**Physics**

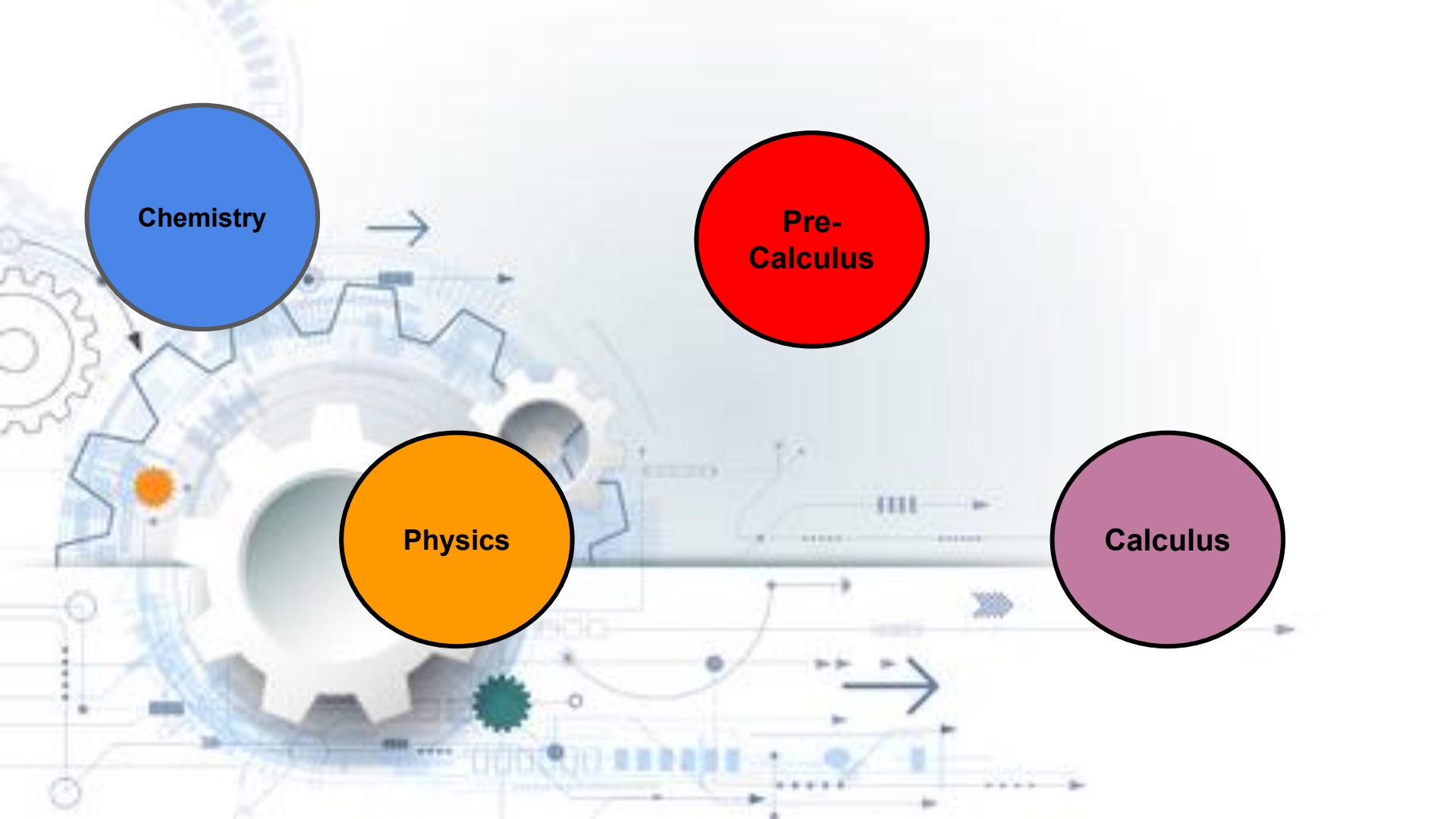
**Chemistry**

**Biology**





# **General Courses for Engineering**



**Chemistry**

**Pre-  
Calculus**

**Physics**

**Calculus**

# Freshmen (9th Graders)

- Explore High School
  - Join Clubs, Sports, Extra-curricular Activities School Events
  - Get to know your teachers and counselors
  - Explore classes options (AP, Honors, IB, etc.) and requirements for graduation

# Sophomores (10th Graders)

- Explore College Options
  - Start looking into career options and colleges
  - Look into the requirements for different colleges and for getting into different majors
  - ACT score, SAT score, AP test score, GPA, Course Requirements



# Juniors (11th Graders)

- Prepare for SAT, ACT tests
  - Do online practice, tutoring, self
- Register for SAT, ACT tests
- Focus on classes and keep the GPA up.
  - This is the cumulative GPA you will apply with for colleges
- Start on college applications

# Seniors (12th Graders)

- Finish-up college applications, submit test score and everything that's needed.
- Last chance to take your tests if you didn't before the second semester.
- Keep the GPA up as admission offers can be conditional and finish all your classes.
- Enjoy :D