

# STEM/STEAM Academy Sequence

Faculty Supervisors: \_\_\_\_\_

Student Name: \_\_\_\_\_ Graduation Year: \_\_\_\_\_

## Core Requirements

**English:** 9, 10, 11, 12

Total Credits: 20

**Mathematics:**

Total Credits: 15

- Geometry
- Algebra II
- Pre-Calculus
- Elementary Functions

**Health and PE:**

Total Credits: 20

- Phys Education 9, 10, 11, 12
- Health 9, 11, 12
- Driver Education

**Visual and Performing Arts**

Total Credits: 5

- Art Studio 1, 2
- Choir 1, 2
- Dance 1, 2
- Theater 1, 2

**Science**

Total Credits: 15

- Intro to Physics
- Chemistry
- Biology
- Elective

**Social Studies**

Total Credits: 20

- World Culture
- US History 1
- US History 2
- **Option Courses** (Holocaust and Genocide, Latin American History, African American History, Civil Society, Psychology, and Sociology (Dual))

**Spanish**

Total Credits: 10

- Spanish I
- Spanish II

**Financial Literacy**

Total Credits: 2.5

**Leadership**

Total Credits: 2.5

**Concentration Electives**

Total Credits: 25

**TOTAL Required Courses:**

**TOTAL: 135**

## Engineering Concentration:

Intro to Engineering	Total Credits: 5
Principles of Engineering	Total Credits: 5
Digital Electronics	Total Credits: 5
Robotics	Total Credits: 5
Engineering Design and Development	Total Credits: 5
Calculus (Required)	Total Credits: 5
Rowan Dual Enrollment Elective	Total Credits: 3
Puerto Rican Arts Center Internship	Total Credits: 5
FabLab Internship	Total Credits: 5

**Required Credits: 25**

## Biomedical Concentration

Principles of Biomedical Science	Total Credits: 5
Human Body Systems	Total Credits: 5
Medical Interventions	Total Credits: 5
Biomedical Innovations	Total Credits: 5
Anatomy and Physiology	Total Credits: 5
Forensics	Total Credits: 5
Calculus (Required)	Total Credits: 5
Puerto Rican Arts Center Internship	Total Credits: 5
FabLab Internship	Total Credits: 5

**Required Credits: 25**

## Computer Science

Principles of Computer Science	Total Credits: 5
Computer Languages	Total Credits: 5
Computer Science Applications	Total Credits: 5
Database Programming	Total Credits: 5
Calculus (Required)	Total Credits: 5
Puerto Rican Arts Center Internship	Total Credits: 5
FabLab Internship	Total Credits: 5

**Required Credits: 25**

## Industrial Arts

Introduction to Industrial Arts	Total Credits: 5
Technical Arts	Total Credits: 5
Principles of Engineering	Total Credits: 5
Puerto Rican Arts Center Internship	Total Credits: 5
FabLab Internship	Total Credits: 5
Fundamentals of Design	Total Credits: 5
Graphic Design	Total Credits: 5
Industrial Arts	Total Credits: 5
Intro to Architecture	Total Credits: 5

**Required Credits: 25**

**TOTAL CREDITS for GRADUATION: 135**

9<sup>th</sup> Grade Advisor Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

10<sup>th</sup> Grade Advisor Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

11<sup>th</sup> Grade Advisor Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

12<sup>th</sup> Grade Advisor Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_