



STEM AND EDUCATION MAGNET PROGRAMS

Dr. Kimberly Bolig
Director, Regional STEM Education Center
Bloomsburg University of Pennsylvania

AGENDA

- Why STEM?
- Why Education?
- Why STEM or Education Magnet Programs?
 - Overview of programs
- Requirements to apply
- How to apply
- Acceptance process
- Requirements upon acceptance
- STEM Magnet 2019-2020
- Questions?

WHY STEM?

- STEM careers:
 - *make a difference in the world*
 - *use creativity and imagination*
 - *explore and experiment*
 - *travel*
 - *collaborate*
 - *pay well*

- STEM careers:

- *21 out of top 25 best paying jobs are STEM*
- *Salaries - \$64,590 compared to \$37,870*
- *15 highest paying degrees have math*
- *Highest job satisfaction – math careers*
- *17% STEM jobs growth vs 10% overall*



WHY EDUCATION

- Make a difference
 - Influence the leaders of tomorrow
 - Change students' lives
- Get a job
 - National teacher shortage
 - 170,000 new teaching openings each year
 - 4,600 openings each year in PA until 2022
 - PA's rigorous certification standards
- Pay well
 - \$40-\$45k to start in PA
 - \$65-\$70k for experience
- Always changing
 - Each year is new
 - Each summer is a chance to learn and refresh
- Love what you do

WHY STEM OR EDUCATION MAGNET

- Take college courses while still staying in high school
- Join a cohort of students with similar interests from 14 school districts
- Get up to 30 credits for college before freshman year
- Have opportunity to interact with professionals in the field
- Workshops to prepare for college and career
- Acceptance into BU upon successful completion of the program
- Application fee waived to Bloomsburg University
- Scholarships available for STEM Magnet students

But don't just take my word for it ...

REQUIREMENTS TO APPLY FOR STEM MAGNET

- Current sophomore
- Math
 - Algebra I
 - Algebra II
 - Geometry
- Two years of science
- Science teacher, math teacher or guidance counselor recommendation
- Minimum 95% attendance record

REQUIREMENTS TO APPLY FOR EDUCATION MAGNET

- Current sophomore
- Two years of math
 - Minimum C grade in each course
- One year of science
 - Minimum C grade in each course
- One year of English/language arts
 - Minimum C grade in each course
- Teacher or guidance counselor recommendation
- Minimum 95% attendance record

HOW TO APPLY

www.bloomu.edu/stem

- Application
- Academic distinctions or honors
- Essay (minimum 150 words)
- High School Transcript
- Teacher/Guidance Counselor Recommendation
- Financial Aid Application

ACCEPTANCE PROCESS

1. APPLY BY APRIL 15, 2019
2. RECEIVED EMAIL CONFIRMING APPLICATION RECEIPT
3. REVIEWED BY PANEL OF REGIONAL LEADERS
4. NOTIFICATION OF ACCEPTANCE BY MAY 1, 2019
5. CONFIRMATION INFORMATION MAILED ALONG WITH SUMMER ORIENTATION SCHEDULE

REQUIREMENTS UPON ACCEPTANCE

- 2-YEAR COMMITMENT
- 3 DAYS PROGRAMMING IN SUMMER
- ENROLLMENT IN 2 COURSES PER SEMESTER (SUMMER OPTIONAL)
- WINTER BREAK PROGRAM 2019
- WILLINGNESS TO LEARN AND PARTICIPATE
- COMPLIANCE WITH BLOOMSBURG POLICES
- PARTICIPATION IN ALL PROGRAM ACTIVITIES



STEM MAGNET 2018-2019

- 2 COURSES IN FALL & SPRING – Begin 8/26/19
- STUDY LAB
- WINTER BREAK PROGRAM 2019 – January 2020
- SPEAKERS & WORKSHOPS
- BLOOMSBURG FAIR WEEK
- TUTORS & PROFESSOR HOURS
- FIELD TRIPS



STEM MAGNET TRACKS

- ENGINEERING
sample courses

- Intro to Engineering
- Python Programming
- CAD Engineering
- PreCalculus
- Calculus 1, 2, 3
- Physics
- Chemistry
- Critical Thinking
- Java 1

- HEALTH SCIENCES
sample courses

- Medical Ethics
- Intro to Statistics
- General Psychology
- Human Biology
- Chemistry
- Anatomy & Physiology
- PreCalculus
- Calculus 1

- TECHNOLOGY
sample courses

- Intro to Engineering
- Python Programming
- CAD Engineering
- PreCalculus
- Essentials Calculus
- File Systems 1 & 2
- Java 1 & 2
- Intro to Statistics

EDUCATION MAGNET

- Four Fundamental Education Courses
- College Math course
- College English course
- College Science course
- College Psychology course

COST

- \$700 – \$930 per semester
- \$100 - \$300 books per semester

QUESTIONS?



DEADLINE TO APPLY: APRIL 15