Bachelor’s Program | Aerospace Engineering

1st Semester
- History of Russia
- Health Concepts & Strategies
- English I
- Russian as a Foreign Language
- Geometry
- Introduction to Calculus
- Foundations of Programming I
- Introduction to Engineering Graphics and Visualization

2nd Semester
- Applied Physical Education
- English I
- Russian as a Foreign Language
- Geometry
- Single Variable Calculus
- Physics I. Introduction to Physics
- Foundations of Programming II
- Advanced Engineering Graphics and Visualization

3rd Semester
- Applied Physical Education
- Russian as a Foreign Language
- Linear Algebra
- Multivariable Calculus
- Physics II. Mechanics
- Computing for Engineers I
- Fundamentals of Aerospace Engineering: An Introductory Course to Aeronautical Engineering

4th Semester
- Applied Physical Education
- Russian as a Foreign Language
- Fourier Analysis
- Ordinary Differential Equations
- Physics III. Thermodynamics and Electricity
- Introduction to Theoretical Mechanics
- Fundamentals of Aerospace Engineering: An Introductory Course to Aeronautical Engineering

5th Semester
- Applied Physical Education
- Russian as a Foreign Language
- Ordinary Differential Equations
- Probability Theory
- Physics Advanced
- Computing for Engineers II
- Fluid Mechanics
- Fluid Mechanics Laboratory
- Aerodynamics
- Theoretical Mechanics
- Spacecraft Flight Dynamics
- Introduction to the Physics of the Atmosphere and Outer Space

6th Semester
- Applied Physical Education
- Russian as a Foreign Language
- Functions of One Complex Variable
- Partial Differential Equations
- Physics Advanced
- Mechanics of Deformable Bodies
- Solid Mechanics Laboratory
- Control System Analysis and Design

7th Semester
- Russian as a Foreign Language
- Partial Differential Equations
- System Dynamics and Vibration
- Attitude Determination and Control
- Dynamics and Control Laboratory
- Instrumentation and Electronics Laboratory

8th Semester
- Philosophy
- Life Safety
- Russian as a Foreign Language
- Aircraft Flight Dynamics
- Rotorcraft Flight Dynamics