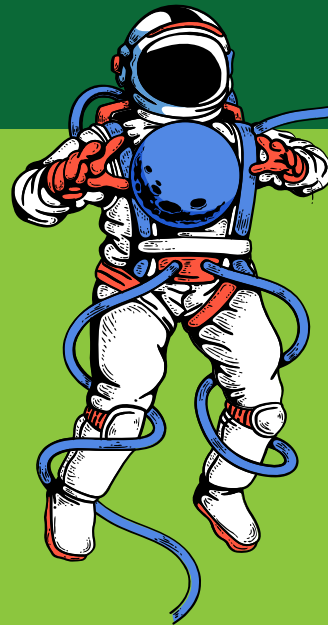

Aerospace Engineering Undergraduate Program



**UNIVERSIDAD
DE ANTIOQUIA**

Facultad de Ingeniería



Introduction

UNIVERSIDAD
DE ANTIOQUIA



East Campus UdeA – Carmen de Viboral

La Universidad de Antioquia is a public academic institution located in Medellín, Colombia's second-largest city. Founded in 1803, it is Colombia's oldest public university and the second largest overall. It is currently home to over 36.000 students on our main campus and on 12 other regional campuses.

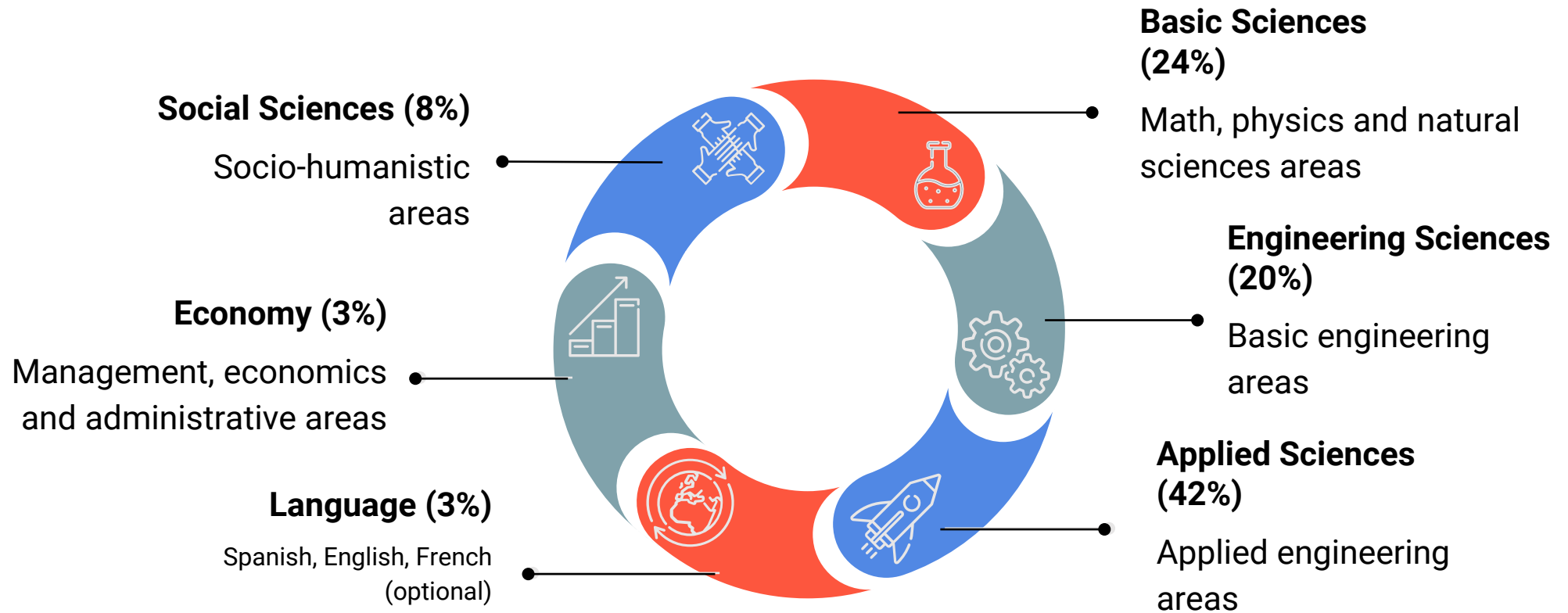
Thanks to its 26 Schools, the University of Antioquia offers 82 undergraduate programs, 44 master's degrees and 26 doctorate programs in all fields of knowledge. It is also recognized as one of the three best Colombian research Universities and has Colombia's highest percentage of excellence research group according to the National Board of Science and Technology (Colciencias).



Aerospace Engineering Program

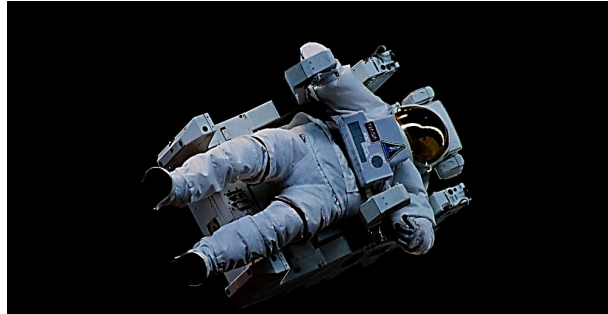
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- Located in East Campus
- Part of the Department of Mechanical Engineering (Faculty of Engineering)
- 1st undergraduate program in aerospace engineering specifically
- Founded in 2017 – 1st generation of Colombian aerospace engineers 2023-2
- Almost 160 active students since the beginning



Aerospace-Oriented Content

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DE ANTIOQUIA



Astronautics

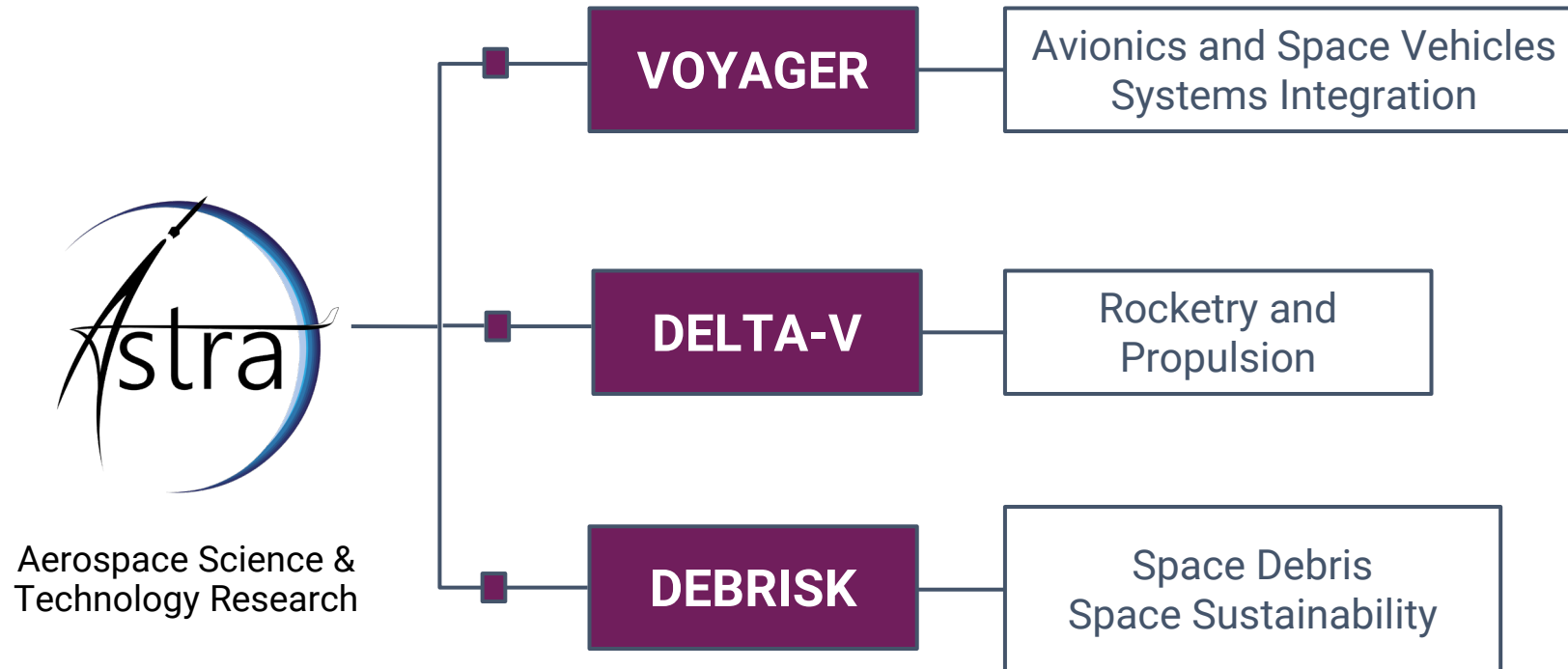
- Astrodynamics and Attitude Control
- Space mission analysis and design
- Space vehicle engineering
- Spacecraft and Rocket Propulsion



Aeronautics

- Airworthiness and aircraft maintenance
- Aircraft operation
- Propulsion
- Rotary and fixed-wing aircraft design
- Human factors in aviation





Student Activities - CanSats

UNIVERSIDAD
DE ANTIOQUIA



Equipo V

clim

Reto de Innovación CanSat Colombia 2020

AES5

1	HELIOS	89.3	▲
2	VOLTAX	86.9	▲
3	GITI	82.8	
4	J-COMP	82.6	▲

Juan David Osorio
Henao

Juan Pablo Higuera
Echavarría

**UNIVERSIDAD
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Seccional Oriente

VOYAGER



Student Activities – AIAA Space Design Competition

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Student Activities – Zaggi AESS Race

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First Place 2022



SPACECRAFT CONTROL AND SYSTEMS ENGINEERING



COMITÉ DE LANZAMIENTOS MISIONES SUBORBITALES



Proyecto Uniandino Aeroespacial – PUA
 Rol: Diseño Plataformas de Lanzamiento - SySML



Rol: Promoción e integración de partes interesadas o proyectos académicos



Programa Ingeniería Aeroespacial
 Rol: Integración de Sistemas MBSE
 Sistemas de prueba



Rol: Insumos para ignición y fabricación propelente



Programa de Desarrollo Espacial
 Rol: Gestión del conocimiento, apoyo de Insumos y coordinación de lanzamientos



Dirección de Operaciones Espaciales
 Rol: Estandarización país, aprobación lanzamientos, generación de conocimiento

INTEGRIDAD - SEGURIDAD - HONOR - VALOR - COMPROMISO

Thanks!

Questions?

ingenieria.aeroespacial@udea.edu.co

Sitio web: <https://n9.cl/e096a>

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