



A&A Recommended Curriculum

FLUIDS

Core Courses

- AA 504 Compressible Fluid Mechanics
- AA 507 Incompressible Fluid Mechanics
- AA 543 Computational Fluid Dynamics of Compressible Flows

Selective Courses (choose two)

- AA 501 Advanced Gas Dynamics
- AA 503 Continuum Mechanics
- AA 506 Vortex-dominated Flows
- AA 508 Turbulence
- AA 524 Aeroacoustics
- AA 525 Advanced Airbreathing Propulsion
- AA 544 Computational Fluid Dynamics of Incompressible Flows

Analytical Courses

- AMATH 501 Vector Calculus and Complex Variables
- AMATH 503 Methods for Partial Differential Equations

AND ONE OF

- AMATH 581 Scientific Computing
- AMATH 582 Computational Methods for Data Analysis
- AMATH 584 Applied Linear Algebra and Introductory Numerical Analysis



A&A Sample Plan

FLUIDS

YEAR 1		YEAR 2	
Autumn	AMATH 501 AA 504	Autumn	<u>S/B*</u> <u>S/B*</u>
Winter	AA 507 AMATH 582	Winter	AA 543 <u>S/B*</u>
Spring	AMATH 503 <u>S/B*</u>	Spring	AA 700

AMATH 582 Path

YEAR 1		YEAR 2	
Autumn	AMATH 501 AA 504	Autumn	AMATH 581 or AMATH 584 <u>S/B*</u>
Winter	AA 507 <u>S/B*</u>	Winter	AA 543 <u>S/B*</u>
Spring	AMATH 503 <u>S/B*</u>	Spring	AA 700

AMATH 581 or AMATH 584 Path

S/B = Selective or Breadth Course.

You need two Selectives and two Breadth Courses.