

Study Plan for the Physics/Aviation Double Major

Scheme I (for students electing two Aviation courses in Semester 2 at level 3)

Stage 1

ZPEM1301 Mathematics 1A
 ZPEM1302 Mathematics 1B
 ZPEM1501 Physics 1A: Mechanics, Waves and Thermodynamics
 ZPEM1502 Physics 1B: Electromagnetism and Modern Physics
 ZEIT1800 Introduction to Aviation Technology
plus 18 UOC of free electives

Stage 2

ZPEM2302 Mathematics Tools for Science
 ZPEM2506 Physics2A: Meteorology and Atmospheric Physics
 ZPEM2502 Physics2B: Electrons, Photons and Matter
 ZPEM2509 Astrophysics
 ZEIT2502 Fundamentals of Flight
 choose one of ZEIT2802 Aircraft Systems for Aviators or ZEIT2803 Aviation Safety
plus
 12UOC of General Education

Stage 3

ZPEM3503 Advanced Materials
 ZPEM3528 Nuclear Physics
 ZPEM3532 Advanced Topics in Physics and Oceanography
**plus* choose two of the following LIII Aviation courses:
 ZEIT3801 Advanced Aviation Safety (Prerequisite ZEIT2803), ZEIT3803 Air Traffic Management,
 ZEIT3804 Behavioural Science Project
#plus choose one of the following LIII Aviation courses:
 ZPEM3204 Environmental Hazards or ZEIT3805 Airport Operations and Systems
Plus
 6UOC free elective, recommended courses: ZPEM3103 Introduction to Quantum Theory or
 ZPEM2508 CBRNE or a second Aviation course (from # group or Stage 2).
 6UOC of prescribed elective: ZINT2100 Introduction to Cyber-security: Policy and Operation

Sample Program

	Semester 1				Semester 2			
Yr1	ZPEM1301	ZPEM1501	ZEIT1800	elective	ZPEM1302	ZPEM1502	elective	elective
Yr2	ZPEM2302	ZPEM2506	ZEIT2802 or ZEIT2803	GE-gp1	ZEIT2502	ZPEM2502	ZPEM2509	GE-gp2
Yr3	#Aviation LIII	elective	ZPEM3503	ZINT2100	*Aviation LIII	*Aviation LIII	ZPEM3528	ZPEM3532

The plan provided above could be just one of several possible combinations for this double-major.
 Please see the Science UG Coordinator if you require further advice.

Scheme II (for students electing one Aviation unit in S2 at level 3)

Stage 1

ZPEM1301 Mathematics 1A
 ZPEM1302 Mathematics 1B
 ZPEM1501 Physics 1A: Mechanics, Waves and Thermodynamics
 ZPEM1502 Physics 1B: Electromagnetism and Modern Physics
 ZEIT1800 Introduction to Aviation Technology
 plus 18 UOC of free electives

Stage 2

ZPEM2302 Mathematics Tools for Science
 ZPEM2506 Physics2A: Meteorology and Atmospheric Physics
 ZPEM2502 Physics2B: Electrons, Photons and Matter
 ZPEM2509 Astrophysics
 ZEIT2502 Fundamentals of Flight
 ZEIT2802 Aircraft Systems for Aviators or ZEIT2803 Aviation Safety
 *6UOC of free elective; ZPEM2508 CBRNE or the additional Aviation course are recommended.
 Elective choice could be taken in S1 of year 3 if GE-gp1 is done in year 2.

Plus

6UOC of General Education

Stage 3

ZPEM3503 Advanced Materials
 ZPEM3528 Nuclear Physics
 ZPEM3532 Advanced Topics in Physics and Oceanography
 ZPEM3204 Environmental Hazards
 ZEIT3805 Airport Operations and Systems.
 #choose one of the courses:
 ZEIT3801 Advanced Aviation Safety (Prerequisite ZEIT2803) or ZEIT3803 Air Traffic Management or
 ZEIT3804 Behavioural Science Project

plus

6UOC of prescribed elective: ZINT2100 Introduction to Cyber-security: Policy and Operation

Sample Program

	Semester 1				Semester 2			
Yr1	ZPEM1301	ZPEM1501	ZEIT1800	elective	ZPEM1302	ZPEM1502	elective	elective
Yr2	ZPEM2302	ZPEM2506	ZEIT2802 or ZEIT2803	*elective	ZEIT2502	ZPEM2502	ZPEM2509	Ge-gp2
Yr3	ZPEM3204	ZEIT3805	ZPEM3503	GE-gp1	#Aviation LIII	ZPEM3528	ZPEM3532	ZINT2100

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