Data Science Specialisation Pathway

This document is to facilitate student planning. The definitive guide to the NPSIA Program is Carleton's Graduate Calendar: https://calendar.carleton.ca/grad/gradprograms/internationalaffairs/. It is the student's responsibility to ensure their degree requirements are met. We recommend that students fulfill their degree requirements as early as possible; this prioritisation of required courses is reflected in the pathway sequence outlined below.

Data Science Coursework Option

Year One Fall	***Required*** INAF 5016 Statistical Analysis for International Affairs [0.5] INAF 5017 Policy Process and International Affairs [0.25] INAF 5018 Law and International Affairs [0.25] ***Other Requirements*** INAF Course of Student's Choosing - Field or Elective [0.5] *Language requirement completed as early as possible* *NB: Students need to complete the above 1.5 credits to be eligible to apply for coop for summer.*	1.5 credits
Year One Winter	***Required*** DATA 5000 Data Science Seminar [0.5] INAF Economics Course [0.5] ***Other Requirements*** INAF Course of Students Choosing - Field or Elective [0.5] *NB Students cannot enroll in their mandatory economics course without completing their economics prerequisite in advance of this term.*	1.5 credits
Year One Spring/ Summer	Potential COOP *Potential INAF Courses of Students Choosing - Field or Elective [0.5]*	
Year Two Fall	***Required*** *INAF 5904 [0.5] Quantitative Research Methods* ***Other Requirements*** INAF Courses of Students Choosing - Field or Elective [1.0]	1.5 credits
Year Two Winter	***Other Requirements*** INAF Courses of Students Choosing - Field or Elective [0.5]	0.5 credits
TOTAL		5.0 credits

*A course from outside the school can be used for this requirement with approval by the School and Institute for Data Science. This course must include at least one major assignment with a significant data science component.

Data Science Research Essay Option

Year One Fall	**_Required_** INAF 5016 Statistical Analysis for International Affairs [0.5] INAF 5017 Policy Process and International Affairs [0.25] INAF 5018 Law and International Affairs [0.25] **_Other Requirements_** INAF Course of Students Choosing - Field or Elective [0.5] _Language requirement completed as early as possible_ _NB: Students need to complete the above 1.5 credits to be eligible to apply for coop for summer._	1.5 credits
Year One Winter	**_Required_** DATA 5000 [0.5] Data Science Seminar INAF [0.5] Economics Course **_Other Requirements_** INAF Courses of Student's Choosing - Field or Elective [0.5] _NB: Students cannot enroll in their mandatory economics course without completing their economics prerequisite in advance of this term._	1.5 credits
Year One Spring/ Summer	Potential COOP _Potential INAF Courses of Students Choosing - Field or Elective [0.5]_	Remaining 2.0 credits
Year Two Fall	Potential COOP _Potential INAF Courses of Students Choosing - Field or Elective [0.5]]_	
Year Two Winter	**_Required_** INAF 5908 MRE [1.0] _MRE needs to reflect the Data Science Specialisation_ _Continuous registration in INAF 5908 until MRE is completed_ INAF Course of Student's Choosing - Field or Elective	
Year Two Spring/ Summer	_Coop provides students with additional term to complete program._ _INAF Course of Student's Choosing - Field or Elective_	
TOTAL		5.0 credits

Data Science Thesis Option

Year One Fall	***Required*** INAF 5016 Statistical Analysis for International Affairs [0.5] INAF 5017 Policy Process and International Affairs [0.25] INAF 5018 Law and International Affairs [0.25] ***Other Requirements*** INAF Course of Students Choosing [0.5] *Language requirement completed as early as possible* *NB: Students need to complete the above 1.5 credits to be eligible to apply for coop for summer.*	1.5 credits
Year One Winter	***Required*** DATA 5000 [0.5] Data Science Seminar INAF [0.5] Economics Course ***Other Requirements*** INAF Courses of Student's Choosing - Field or Elective [1.0] *NB: Students cannot enroll in their mandatory economics course without completing their economics prerequisite in advance of this term.*	1.5 credits
Year One Spring/ Summer	Potential COOP *Potential INAF Courses of Students Choosing - Field or Elective [0.5]*	
Year Two Fall	***Required*** INAF 5909 Thesis [2.0] *Thesis needs to reflect the Data Science Specialisation* *Continuous registration in INAF 5909 until Thesis is completed*	2.0 Credits
Year Two Winter	***Required*** INAF 5909 Thesis [2.0] *Thesis needs to reflect the Data Science Specialisation* *Continuous registration in INAF 5909 until Thesis is completed*	
TOTAL		5.0 credits

Data Science Specialisation Completion Checklist	Satisfied
Language Requirement	
INAF 5016 – Required Statistics Class [0.5 credit]	
INAF 5017 - Required Policy Class [0.25 credit]	
INAF 5018 - Required Law Class [0.25 credit]	
INAF Economics Requirement [0.5 credit] • IEP field requires 1.0 credits in economics	
Minimum 3.5 INAF Course Credits (includes required courses)	
Field Designation (if student chooses) at least 1.5 credits are in the chosen field	
Data Science Specialisation requirements fulfilled: • DATA 5000 • Coursework: INAF 5904 or approved course with data science component • W MRE/Thesis: Research reflects data science specialisation	
For Non-NPSIA Courses: • No more than 1.5 credits from courses from other departments • No more than 1.0 credit from a single department outside NPSIA • All non-NPSIA courses approved by NPSIA Associate Director	
No lower than a B- grade in any course credited to their MA program. *NB If students receive grades C+ or lower in two or more courses, they will be withdrawn from the NPSIA program.*	
Full Time Students: Completion of degree requirements within two calendar years; each coop term extends this time limit by one term.	
Part Time Students: Completion of degree requirements within six calendar years (terms of non-registration are counted within this six-calendar year time frame). *Part time students must register for a minimum of one term in three and must successfully complete INAF 5016, INAF 5017, INAF 5018 and their economics course requirement within their first 2.5 program credits.*	
Credits add up to 5.0 credits	

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