

Program Change Request

Date Submitted: 10/27/22 11:48 am

Viewing: **IN-MS-P002 : INTO Mason: Science**

Graduate Pathways

Last approved: 07/13/22 3:55 pm

Last edit: 10/27/22 11:48 am

Changes proposed by: cbrady12

Catalog Pages

Using this Program

[INTO Mason: Science Graduate Pathways](#)

In Workflow

1. **IN Academic Director**
2. **IN Academic Affairs Dean**
3. **SC Curriculum Committee**
4. SC Associate Dean
5. SC CAT Editor
6. Assoc Provost-Graduate
7. Registrar-Programs

Approval Path

1. 10/27/22 12:19 pm
Steven Scott
(sscott4): Approved for IN Academic Director
2. 10/28/22 11:25 am
Marcy Glover
(mglover2): Approved for IN Academic Affairs Dean

History

1. Jul 13, 2022 by Tory Sarro (vsarro)

Are you completing this form on someone else's behalf?

No

Effective Catalog: 2023-2024

Program Level: Graduate

Program Type: INTO-Mason

Title:

INTO Mason: Science Graduate Pathways

5. Is this badge co-sponsored?

Education

Professional

Skills Top

Badge Attributes

Time Commitment:

Cost:

Industry Standard:

Recommendation:

Issuance information and Pricing

Estimated Number of Badges Expected to be Issued:

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Notes:

A Mason Digital Credentials Advisory Group member has

Review:

Is this a retitling of

Existing Program

Registrar/OAPI Use

Registrar's Office

Use Only –

Program Start Term

Registrar/OAPI Use

Registrar/OAPI Use

Only – SACSCOC

Status

Concentration(s):

	Associated Concentrations	Registrar's Office Use Only: Concentration Code
1	Accelerated INTO	ACC
2	Extended INTO	EXT
3	Standard INTO	STD

INTO Major(s):

	Associated Majors	Registrar's Office Use only: Major Code
1	Bioinformatics & Comp Biology	BCB
2	Bioinformatics Management	BNFM
3	Computational Science	COMP
3 4	Earth Systems Science	ESSC
4 5	Environmental Science & Policy	EVSP
5 6	Forensic Science	FRSC
6 7	Geographic & Cartographic Sci	GECA
7 8	Mathematics	MATH

	Associated Majors	Registrar's Office Use only: Major Code				
89	Applied & Engineering Physics	PHAE				
Registrar/IRR Use Only –						
College/School:	INTO Mason					
Department / Academic Unit:	INTO Mason					
Jointly Owned Program?	Yes					
Participating Colleges	<table border="1"> <thead> <tr> <th></th> <th>College</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>College of Science</td> </tr> </tbody> </table>			College	1	College of Science
	College					
1	College of Science					
Participating Departments						
Justification	Deactivating the Standard and Accelerated Pathways to the MS in Computational Science.					

Catalog Published Information

Total Credits

Registrar's Office Use Only - Program Code:

IN-MS-P002

Registrar/IRR Use Only – Program CIP Code

Admission Requirements:

Program-Specific Policies:

Degree Requirements:

Plan of Study:

**Honors
Information:**

**Accelerated
Description/Dual
Degree
Description:**

**INTO-Mason
Requirements:**

Applied and Engineering Physics Graduate Pathway

The following grid is for the first semester of the standard, 2-semester pathway into the Master of Science in Applied and Engineering Physics degree:

Standard semester 1 of 2

EAP 506	Graduate Communication in the Disciplines I	4
EAP 410	Language Support for International Students	2
INYO 504	Accelerated Graduate Transitions for International Students	3
PHYS 502	Introduction to Quantum Mechanics and Atomic Physics	3
or PHYS 684	Quantum Mechanics I	
Total Credits		12

The following grid is for the second semester of the standard, 2-semester pathway into the Master of Science in Applied and Engineering Physics degree:

Standard semester 2 of 2

EAP 507	Graduate Communication in the Disciplines II	4
EAP 405	Special Topics in Advanced English for Academic Purposes	1
INYO 508	Special Topics Content Support in the Disciplines	1
PHYS 513	Applied Electromagnetic Theory	3
or PHYS 685	Classical Electrodynamics I	
Total Credits		9

The following grid is for the single semester of the accelerated, 1-semester pathway into the Master of Science in Applied and Engineering Physics degree:

Accelerated semester 1 of 1

EAP 508	Graduate Communication in the Disciplines III	4
EAP 405	Special Topics in Advanced English for Academic Purposes	1
INYO 504	Accelerated Graduate Transitions for International Students	3
PHYS 502	Introduction to Quantum Mechanics and Atomic Physics	3
or PHYS 684	Quantum Mechanics I	
PHYS 705	Classical Mechanics	3
Total Credits		14

Bioinformatics and Computational Biology/Management Graduate Pathway

The following grid is for the first semester of the standard, 2-semester pathway into the Master of Science in Bioinformatics and Computational Biology / Management degree:

Standard semester 1 of 2

EAP 506	Graduate Communication in the Disciplines I	4
EAP 410	Language Support for International Students	2
INYO 504	Accelerated Graduate Transitions for International Students	3
BINF 631	Molecular Cell Biology for Bioinformatics	3
or BINF 630	Bioinformatics Methods	
Total Credits		12

The following grid is for the second semester of the standard, 2-semester pathway into the Master of Science in Bioinformatics and Computational Biology / Management degree:

Standard semester 2 of 2

EAP 507	Graduate Communication in the Disciplines II	4
EAP 405	Special Topics in Advanced English for Academic Purposes	1
INYO 508	Special Topics Content Support in the Disciplines	1
BINF 631	Molecular Cell Biology for Bioinformatics	3
or BINF 630	Bioinformatics Methods	
Total Credits		9

The following grid is for the single semester of the accelerated, 1-semester pathway into the Master of Science in Bioinformatics and Computational Biology / Management degree:

~~Accelerated semester 1 of 1~~

EAP 508	Graduate Communication in the Disciplines III	4
EAP 405	Special Topics in Advanced English for Academic Purposes	1
INYO 504	Accelerated Graduate Transitions for International Students	3
CSI 690	Numerical Methods	3
CSI 695	Scientific Databases	3
Total Credits		0

Accelerated semester 1 of 1

EAP 508	Graduate Communication in the Disciplines III	4
EAP 405	Special Topics in Advanced English for Academic Purposes	1
INYO 504	Accelerated Graduate Transitions for International Students	3
BINF 631	Molecular Cell Biology for Bioinformatics	3
or BINF 634	Bioinformatics Programming	
BINF 630	Bioinformatics Methods	3
or BINF 633	Molecular Biotechnology	
Total Credits		14

~~**Computational Science Graduate Pathway The following grid is for the first semester of the standard, 2-semester pathway into the Master of**~~

~~Science in Computational Science degree: The following grid is for the second semester of the standard, 2-semester pathway into the Master of Science in Computational Science degree: The following grid is for the single semester of the accelerated, 1-semester pathway into the~~
Master of Science in Computational Science degree: Earth Systems Science Graduate Pathway

~~Standard semester 2 of 2~~

EAP-507	Graduate Communication in the Disciplines II	4
EAP-405	Special Topics in Advanced English for Academic Purposes	1
INYO-508	Special Topics Content Support in the Disciplines	1
CSI-690	Numerical Methods	3
Total Credits		0

~~Standard semester 1 of 2~~

EAP-506	Graduate Communication in the Disciplines I	4
EAP-410	Language Support for International Students	2
INYO-504	Accelerated Graduate Transitions for International Students	3
CSI-695	Scientific Databases	3
Total Credits		0

The following grid is for the first semester of the standard, 2-semester pathway into the Master of Science in Earth Systems Science degree:

Standard semester 1 of 2

<u>EAP 506</u>	Graduate Communication in the Disciplines I	4
<u>EAP 410</u>	Language Support for International Students	2
<u>INYO 504</u>	Accelerated Graduate Transitions for International Students	3
<u>GG5 553</u>	Geographic Information Systems	3
or <u>GG5 560</u>	Quantitative Methods	
or <u>GG5 579</u>	Remote Sensing	
Total Credits		12

The following grid is for the second semester of the standard, 2-semester pathway into the Master of Science in Earth Systems Science degree:

Standard semester 2 of 2

<u>EAP 507</u>	Graduate Communication in the Disciplines II	4
<u>EAP 405</u>	Special Topics in Advanced English for Academic Purposes	1
<u>INYO 508</u>	Special Topics Content Support in the Disciplines	1
<u>GEOL 513</u>	Hydrogeology	3
or <u>GEOL 532</u>	Paleoclimatology	
<u>CLIM 512</u>	Physical Oceanography	3

or [GEOL 506](#) Soil Science

Total Credits

12

The following grid is for the single semester of the accelerated, 1-semester pathway into the Master of Science in Earth Systems Science degree:

Accelerated semester 1 of 1

EAP 508	Graduate Communication in the Disciplines III	4
EAP 405	Special Topics in Advanced English for Academic Purposes	1
INYO 504	Accelerated Graduate Transitions for International Students	3
GGS 553	Geographic Information Systems	3
or GGS 560	Quantitative Methods	
or GGS 579	Remote Sensing	
GEOL 506	Soil Science	3
or GEOL 513	Hydrogeology	
or GEOL 532	Paleoclimatology	
or CLIM 512	Physical Oceanography	
Total Credits		14

Environmental Science and Policy Graduate Pathway

The following grid is for the first semester of the standard, 2-semester pathway into the Master of Science in Environmental Science and Policy degree:

Standard semester 1 of 2

EAP 506	Graduate Communication in the Disciplines I	4
EAP 410	Language Support for International Students	2
INYO 504	Accelerated Graduate Transitions for International Students	3
EVPP 506	Science of the Environment I	3
Total Credits		12

The following grid is for the second semester of the standard, 2-semester pathway into the Master of Science in Environmental Science and Policy degree:

Standard semester 2 of 2

EAP 507	Graduate Communication in the Disciplines II	4
EAP 405	Special Topics in Advanced English for Academic Purposes	1
INYO 508	Special Topics Content Support in the Disciplines	1
EVPP 507	Science of the Environment II	3
Total Credits		9

The following grid is for the single semester of the accelerated, 1-semester pathway into the Master of Science in Environmental Science and Policy degree:

Accelerated semester 1 of 1

EAP 508	Graduate Communication in the Disciplines III	4
EAP 405	Special Topics in Advanced English for Academic Purposes	1

<u>INYO 504</u>	Accelerated Graduate Transitions for International Students	3
	EVPP or PUAD course	3
	EVPP or PUAD course	3
	Total Credits	14

Forensic Science Graduate Pathway

The following grid is for the first semester of the standard, 2-semester pathway into the Master of Science in Forensic Science degree:

Standard semester 1 of 2

<u>EAP 506</u>	Graduate Communication in the Disciplines I	4
<u>EAP 410</u>	Language Support for International Students	2
<u>INYO 504</u>	Accelerated Graduate Transitions for International Students	3
<u>FRSC 500</u>	Introduction to Forensic Science	3
	Total Credits	12

The following grid is for the second semester of the standard, 2-semester pathway into the Master of Science in Forensic Science degree:

Standard semester 2 of 2

<u>EAP 507</u>	Graduate Communication in the Disciplines II	4
<u>EAP 405</u>	Special Topics in Advanced English for Academic Purposes	1
<u>INYO 508</u>	Special Topics Content Support in the Disciplines	1
<u>FRSC 510</u>	Basic Crime Analysis	3
<u>FRSC 570</u>	Trace and Physical Evidence Concepts	3
	Total Credits	12

The following grid is for the single semester of the accelerated, 1-semester pathway into the Master of Science in Forensic Science degree:

Accelerated semester 1 of 1

<u>EAP 508</u>	Graduate Communication in the Disciplines III	4
<u>EAP 405</u>	Special Topics in Advanced English for Academic Purposes	1
<u>INYO 504</u>	Accelerated Graduate Transitions for International Students	3
<u>FRSC 500</u>	Introduction to Forensic Science	3
<u>FRSC 510</u>	Basic Crime Analysis	3
	Total Credits	14

Geographic and Cartographic Sciences Graduate Pathway

The following grid is for the first semester of the standard, 2-semester pathway into the Master of Science in Geographic and Cartographic Sciences degree:

Standard semester 1 of 2

<u>EAP 506</u>	Graduate Communication in the Disciplines I	4
<u>EAP 410</u>	Language Support for International Students	2

INYO 504	Accelerated Graduate Transitions for International Students	3
GGS 551	Cartographic Design	3
or GGS 553	Geographic Information Systems	
or GGS 560	Quantitative Methods	
or GGS 579	Remote Sensing	
Total Credits		12

The following grid is for the second semester of the standard, 2-semester pathway into the Master of Science in Geographic and Cartographic Sciences degree:

Standard semester 2 of 2

EAP 507	Graduate Communication in the Disciplines II	4
EAP 405	Special Topics in Advanced English for Academic Purposes	1
INYO 508	Special Topics Content Support in the Disciplines	1
Required Major Courses (student will take two of the following):		6
GGS 551	Cartographic Design	
or GGS 553	Geographic Information Systems	
or GGS 560	Quantitative Methods	
or GGS 579	Remote Sensing	
Total Credits		12

The following grid is for the single semester of the accelerated, 1-semester pathway into the Master of Science in Geographic and Cartographic Sciences degree:

Accelerated semester 1 of 1

EAP 508	Graduate Communication in the Disciplines III	4
EAP 405	Special Topics in Advanced English for Academic Purposes	1
INYO 504	Accelerated Graduate Transitions for International Students	3
Required Major Courses (student will take two of the following):		6
GGS 551	Cartographic Design	
or GGS 553	Geographic Information Systems	
or GGS 560	Quantitative Methods	
or GGS 579	Remote Sensing	
Total Credits		14

Mathematics Graduate Pathway

The following grid is for the first semester of the standard, 2-semester pathway into the Master of Science in Mathematics degree:

Standard semester 1 of 2

EAP 506	Graduate Communication in the Disciplines I	4
EAP 410	Language Support for International Students	2
INYO 504	Accelerated Graduate Transitions for International Students	3
MATH 315	Advanced Calculus I	3
or MATH 675	Linear Analysis	

Total Credits

12

The following grid is for the second semester of the standard, 2-semester pathway into the Master of Science in Mathematics degree:

Standard semester 2 of 2

<u>EAP 507</u>	Graduate Communication in the Disciplines II	4
<u>EAP 405</u>	Special Topics in Advanced English for Academic Purposes	1
<u>INYO 508</u>	Special Topics Content Support in the Disciplines	1
<u>MATH 321</u>	Abstract Algebra	3
or <u>MATH 621</u>	Algebra I	
<u>MATH 322</u>	Advanced Linear Algebra	3
Total Credits		12

College
Requirements &
Policies:

Department /
Academic Unit
Requirements &
Policies:

Program Outcomes

Additional Program Information

This information is required by the Office of Accreditation and Program Integrity

Courses offered via
distance (if

Indicate whether
students are able

What is the
primary delivery

format for the program?

Does any portion of this program occur off-campus?

Off-campus details:

Are you working with a vendor / other collaborators to offer your program?

Please explain:

Related

Departments

Additional SCHEV & SACSCOC Information

Is the content of the new program closely related to that of an existing approved program at the same instructional level (i.e., baccalaureate, master's, doctoral)?

Which existing approved program(s)?

Is this new program considered to be "advancing the degree level of a currently approved program" (i.e. existing content is at lower degree level, new content is at the higher degree level)?

Which existing approved program(s)?

Is this new program considered to be "lowering the degree level of a currently approved program" (i.e. existing content is at higher degree level, new content is at the lower degree level)?

Which existing approved program(s)?

Is this a re-opening of a program that was closed to admission within the last five years?

Date of Program Closure

What are the methods of delivery for the program?

Does this program include a course/credit-based competency-based education delivery method?

Is this change a simple retitling of an existing program, with no other changes, to any existing program content, curriculum requirements, etc?

Does this change represent a repackaging of content in an existing approved degree/certificate program at the same instructional level (i.e., baccalaureate, master's, or doctoral)?

Which existing approved program(s)?

Percentage of total credits containing new course content. ("New course content" is defined by SACSCOC as content that is not currently included in an existing approved degree/certificate program at the same instructional level. Do not exclude gen ed credits in calculations for undergraduate programs.)

Does this change include the addition of a distance education or face-to-face method of delivery for this program?

What is the new method of delivery?

OAPI Use Only – Determination of SACSCOC Impact

Comments or Notes

Green Leaf Program Designation

Is this a Green Leaf program?

Green Leaf

Definition

Sustainability-focused academic programs require at least one green leaf course. Either that course is itself sustainability-focused or else the program requires a set of sustainability-related courses with aggregated

Relationship to

Existing Courses

Relationship to

Existing Programs

List sustainability-focused courses currently required in the degree

*Sustainability-related academic programs either require at least one sustainability-related course or else offer any green leaf course as an option or elective. **

List sustainability-related courses currently required

currently required

Does this program cover material which crosses into another department?

No

Impacted

Departments

Additional Attachments

SCHEV Proposal
Executive Summary

Reviewer Comments

Additional Comments

Deactivating the Standard and Accelerated Pathways to the MS in Computational Science.
Looking into proposing Pathways to certificates instead.

Is this course required of all students in this degree program?

%wi_required.eshtml%

Attached Document

Key: 986