

Program Change Request

Date Submitted: 02/06/25 11:09 am

Viewing: : **Chemistry, BS/Chemistry, Accelerated MS**

Last approved: 01/19/22 3:11 pm

Last edit: 02/07/25 8:52 am

Changes proposed by: jbazaz

Catalog Pages
Using this Program
[Chemistry, BS](#)
[Chemistry, MS](#)

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

No

Effective Catalog: 2025-2026

Program Level: Undergraduate & Graduate (BAMs)

Program Type: Bachelor's/Accelerated Master's

Title:
Chemistry, BS/Chemistry, Accelerated MS

Registrar's Office
Use Only –
Program Start Term

Registrar/OAPI Use
Only – SACSCOC
Status

Concentration(s):

College/School: College of Science

Department /
Academic Unit: Chemistry & Biochemistry

Jointly Owned
Program? Yes

Participating
Colleges

In Workflow

1. Registrar-
Programs:Workflow
Review
2. CHEM Assoc Chair
3. CHEM Chair
4. SC Curriculum
Committee
5. SC Assistant Dean
6. Assoc Provost-
Graduate
7. Assoc Provost-
Undergraduate
8. Registrar-Programs

Approval Path

1. 02/07/25 9:48 am
Deborah Mcgarrah
(dmcgarra):
Approved for
Registrar-
Programs:Workflow
Review
2. 02/07/25 10:08 am
Megan Erb
(msikowit):
Approved for CHEM
Assoc Chair
3. 02/14/25 1:40 pm
Mikell Paige
(mpaige3):
Approved for CHEM
Chair

History

**Participating
Departments****Justification**

1. Oct 30, 2017 by
clmig-jwehrheim
2. Mar 2, 2021 by
Jennifer Bazaz
Gettys (jbazaz)
3. Jan 19, 2022 by
Jennifer Bazaz
Gettys (jbazaz)

What: Removing requirement for "immediate" graduate coursework to begin.

For reserve graduate credit, specifying that 12 credits is the maximum counted toward both the UG and GR degrees.

Why: As this program aligns with the university's BAM requirements, we're removing some duplicative language, the links provided direct students to university-level policies.

Catalog Published Information

Accelerated
Description/Dual
Degree
Description:

Chemistry, BS/Chemistry, Accelerated MS

Overview

This bachelor's/accelerated master's degree program allows academically strong undergraduates with a commitment to advance their education to obtain both the [Chemistry, BS](#) and the [Chemistry, MS](#) degrees within an accelerated timeframe. Upon completion of this 138 credit accelerated program, students will be exceptionally well prepared for entry into their careers or into a doctoral program in the field or in a related discipline.

Students are eligible to apply for this accelerated program once they have earned at least 60 undergraduate credits.

They will be able to enroll in up to 18 credits of graduate coursework after successfully completing 75 undergraduate credits. This flexibility makes it possible for students to complete a bachelor's and a master's in five years.

For more detailed information, see [AP.6.7 Bachelor's/Accelerated Master's Degrees](#). For policies governing all graduate degrees, see [AP.6 Graduate Policies](#). For more information on undergraduates enrolling in graduate courses, see [AP.1.4.4 Graduate Course Enrollment by Undergraduates](#).

Application Requirements

Applicants to all graduate programs at George Mason University must meet the admission standards and application requirements for graduate study as specified in the [Graduate Admission Policies](#) section of this catalog.

Important application information and processes for this accelerated master's program can be found [here](#).

Students should seek out the graduate program's advisor who will aid in choosing the appropriate graduate courses and help prepare the student for graduate studies.

Successful applicants will have earned 60 undergraduate credits and have an overall GPA of at least 3.00.

Additionally, they will have completed 36 credits of CHEM courses with a GPA of at least 3.00.

Accelerated Option Requirements

After the completion of 75 undergraduate credits, students may complete 3 to 12 credits of graduate coursework that can apply to both the undergraduate and graduate degrees.

In addition to applying to graduate from the undergraduate program, students in the accelerated program must submit a bachelor's/accelerated master's transition form (available from the [Office of the University Registrar](#)) to the [College of Science's Office of Academic and Student Affairs](#) by the last day to add classes of their final undergraduate semester. ~~Students should enroll for courses in the master's program in the fall or spring semester immediately following conferral of the bachelor's degree, but should contact an advisor if they would like to defer up to one semester.~~

Students must maintain an overall GPA of 3.00 or higher in all graduate coursework and should consult with their faculty advisor to coordinate their academic goals.

Reserve Graduate Credit

Accelerated master's students may also take up to 6 graduate credits as reserve graduate credits. These credits do not apply to the undergraduate degree, but will reduce the master's degree by up to 6 credits. With [the maximum](#) 12 graduate credits counted toward the undergraduate and graduate degrees plus the maximum 6 reserve graduate credits, the credits necessary for the graduate degree can be reduced by up to 18.

Graduate Course Suggestions

The following list of suggested courses is provided for general reference. To ensure an efficient route to graduation and post-graduation readiness, students are strongly encouraged to meet with an advisor before registering for graduate-level courses.

CHEM 633	Chemical Thermodynamics and Kinetics ¹
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For Students Interested in the Environmental Sciences

CHEM 627	Aquatic Environmental Chemistry
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CHEM 651	Environmental Chemistry of Organic Substances
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For Students Interested in Biochemistry

CHEM 567	The Chemistry of Enzyme-Catalyzed Reactions
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CHEM 660	Protein Biochemistry
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For Students Interested in Organic Chemistry

CHEM 568	Bioorganic Chemistry
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[CHEM 613](#) Modern Polymer Chemistry

[CHEM 614](#) Physical Organic Chemistry

For Students Interested in Inorganic Chemistry

[CHEM 641](#) Solid State Chemistry

[CHEM 646](#) Bioinorganic Chemistry

For Students Interested in Analytical Chemistry

[CHEM 624](#) Principles of Chemical Separation

[CHEM 625](#) Electroanalytical Chemistry

For Students Interested in Materials Science

[CHEM 680](#) Fundamentals of Nanoscience and Nanomaterials

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This course covers the advanced concepts necessary to understand the mechanism and kinetics of chemical reactions.

Program Outcomes

OAPI Use Only – Determination of SACSCOC Impact

Comments or Notes

Additional Attachments

Reviewer Comments

Additional Comments

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

%wi_required.eshtml%

Key: 95