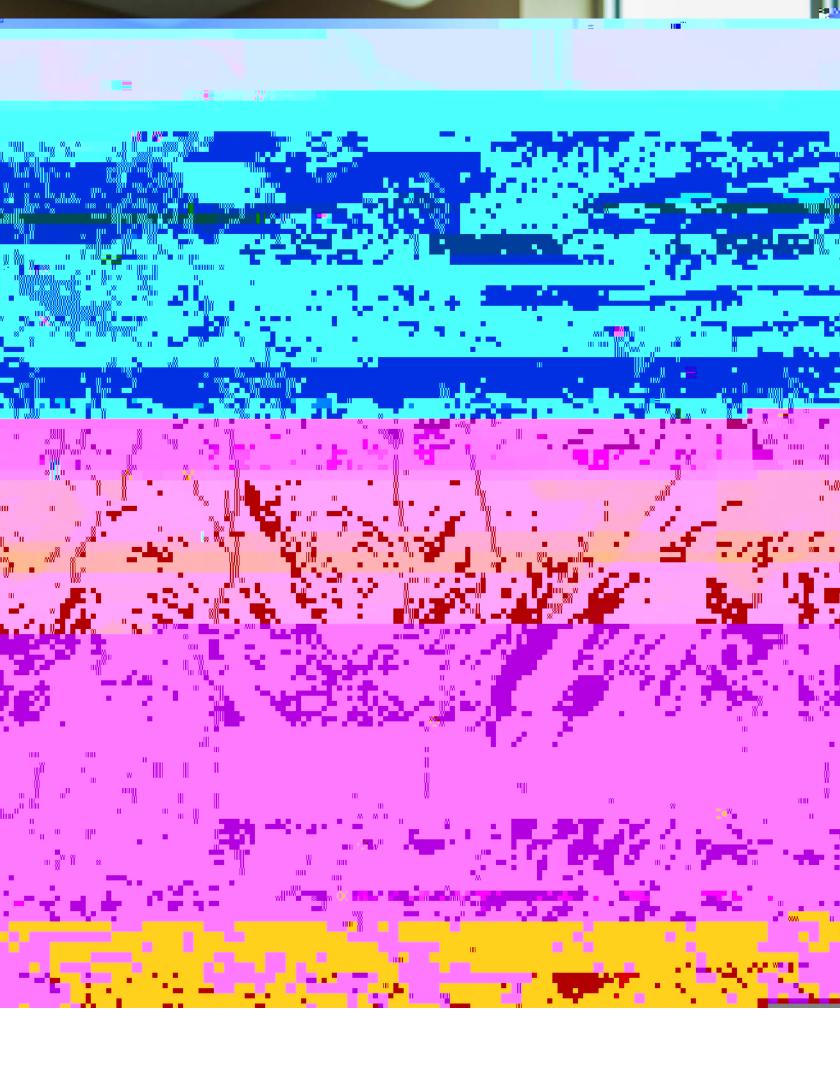
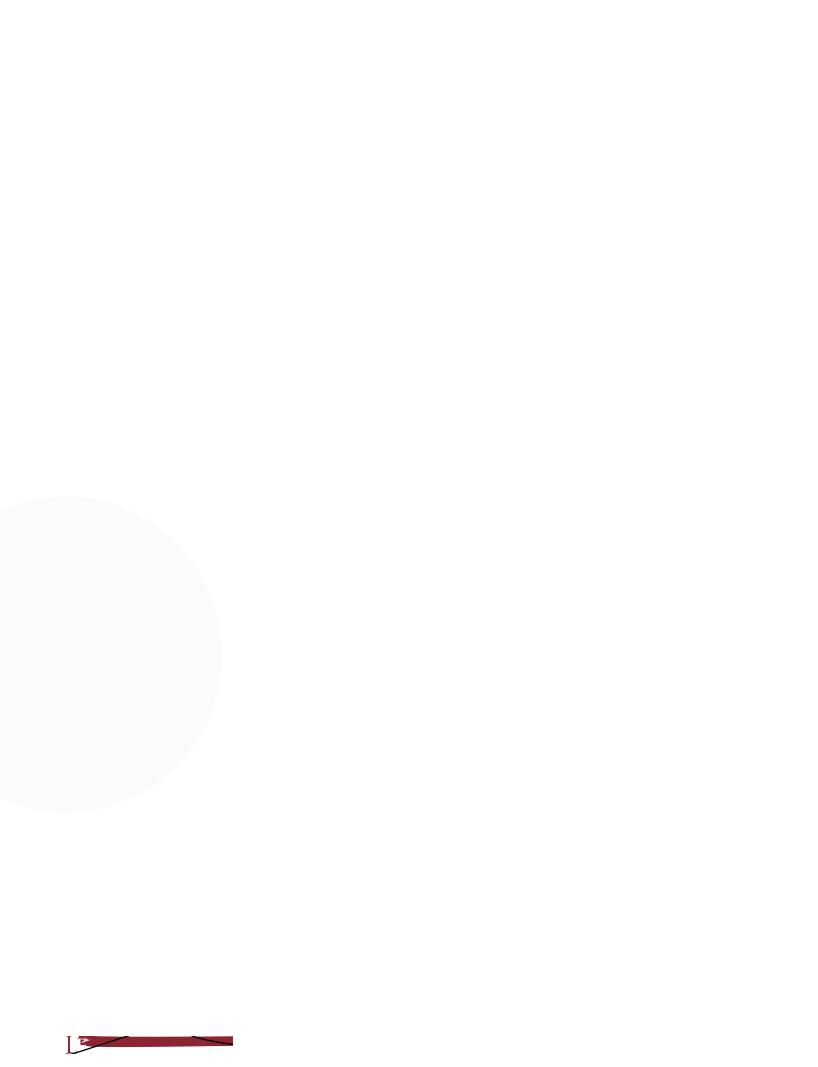


AMCAL CE CE \vdash $\left|-\right|$

AD A E

.....





MASTER OF SCIENCE IN

Acquire the skills to solve real-world problems through the research and testing of chemical compositions.

m

Ρ

-m

С

Cleaning up our water supply. Devising new window coatings to protect airplane pilots from being blinded by lasers. Molding the minds of the next generation.

ese are just a few examples of how you can impact the world with an advanced degree in Chemistry. What's more, you have the potential to take a leadership role in these types of projects, as chemists with advanced degrees are expected to enjoy increased opportunities and fill upper-level positions. As a graduate student at Lewis University, you'll gain first-hand experience on cutting-edge assignments that will prepare you for these kinds of positions. at's because you'll work hand-inhand with faculty to acquire a solid understanding of:

- Solving problems in the synthesis, measurement and modeling of chemical systems
- The reasoning process in chemical science
- Specific chemical systems to understand a broad range of complex systems of scientific and societal interest
- The scientific method to design, carry out, record and analyze the results of experiments
- 1upoOb84 Tm (cw. 0 Tw 10. C)o61 Tf01-ocess in clem /Span []7c method to design, carry out,

C c _m

Degree Requirements

D	C	Ĵf	: Chemi	stry (M.S.)
Т	_C	Н	R	: 30

I. CORE COURSES (15 CREDIT HOURS)

CHEM-50100	Chemical Thermodynamics
CHEM-50200	Strategic Organic Chemistry
CHEM-52000	Advanced Analytical Chemistry
CHEM-60100	Kinetics and Reaction Mechanisms
CHEM-60500	Applied Spectroscopy

II. SKILLS AND RESEARCH (9 CREDIT HOURS)

CHEM-59600	Introduction to Research	
CHEM-69600	Graduate Seminar	
	(Multiple enrollments for a total of	
	2 credit hours)	
CHEM-69800	Master's Thesis	
	(Multiple enrollments for a total of	
	6 credit hours)	

III. ELECTIVES (6 CREDIT HOURS)*

CHEM-60000	Physical Inorganic Chemistry
CHEM-60200	Advanced Biophysical Chemistry
CHEM-62100	Materials Chemistry
CHEM-62300	Supramolecular Chemistry
CHEM-65200	Computational Chemistry
CHEM-68000	Special Topics in Chemistry
CHEM-68500	Readings in Chemistry

*Up to 6 hours of graduate coursework in other related disciplines may be chosen with the approval of your advisor and graduate program director.

Admission Requirements

In order to be accepted into this program, you must possess:

- A baccalaureate degree from a regionally accredited institution of higher education.
- A minimum undergraduate GPA of 3.0 on a 4.0 scale.
- A completed application for graduate admission with \$40 application fee.
- A professional resumé.
- Official transcripts from all educational institutions attended.
- Two-page statement of purpose.
- Two recommendation forms or letters.
- Undergraduate coursework in discrete mathematics, programming and algorithms (Students without sufficient coursework will still be considered for admission but may need to complete up to 13 credit hours of foundation courses).
- International students are required to have a TOEFL test score greater than 550 (computer-based 213; Internet-based 79).

*Provisional admission may be granted for those who do not meet these requirements

Provisional Admission

Under certain circumstances, students who don't meet the GPA requirement for full admission may request to be admitted to the program on a provisional basis. If provisionally admitted, you must complete the first 9 semester hours of graduate study with a GPA of 3.0 or higher. After 9 hours of completed coursework, your application will be reviewed again for full admission.

MASTER OF SCIENCE IN CMC P

Discover the influence you can have on people's everyday lives by addressing energy needs and other important issues.

D

m

From chemistry to physics. From nanotechnology to materials. A Master of Science in Chemical Physics from Lewis University will allow you to profoundly a ect the world by designing materials for energy production and utilization, tackling basic issues in surface interactions or exploring complex issues in biochemistry.

at's because our faculty are experts in their fields, working hand-in-hand with you and sharing their realworld experience. At the same time, they utilize an interdisciplinary approach, exposing you to a variety of projects and ideas so you'll have the potential to enjoy the greater opportunities an advanced degree a ords and take on a leadership role in your career. You will:

- Demonstrate an understanding of the fundamental scientific principles and apply acquired knowledge of physical and chemical properties
- Apply acquired knowledge to the development of new materials, new theories and effects and devices
- Present scientific data in research publications, articles, posters and oral presentations

Admission Requirements

In order to be accepted into this program, you must possess:

- A baccalaureate degree in Chemistry, Physics or Chemical Physics from a regionally accredited institution of higher education or in a major in a related field.
- A minimum undergraduate GPA of 3.0 on a 4.0 scale.
- A completed application for graduate admission with \$40 application fee.
- Official transcripts from all institutions of higher education attended.
- A one- to two-page personal statement describing your background and how this degree will relate to your career goals.
- Three letters of recommendation.

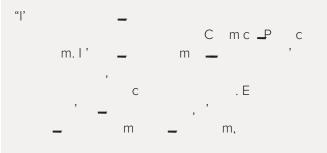
*Provisional admission may be granted for those who do not meet these requirements

Provisional Admission

Under certain circumstances, students who don't meet the GPA requirement for full admission may request to be admitted to the program on a provisional basis. If provisionally admitted, you must complete the first 9 semester hours of graduate study with a GPA of 3.0 or higher. After 9 hours of completed coursework, your application will be reviewed again for full admission.



James Hofmann '17, Chemical Physics (M.S.) Teaching Assistant, Lewis Physics Labs



Degree Requirements

D Off : Chemical Physics (M.S.) T _C H R : **30**

I. CORE COURSES (15 CREDIT HOURS)

CHEM-50100	Chemical Thermodynamics
CHEM-60100	Kinetics and Reaction Mechanisms
CHEM-60500	Applied Spectroscopy
PHYS-54100	Quantum Mechanics
PHYS-54200	Condensed Matter Physics

II. SKILLS AND RESEARCH (9 CREDIT HOURS)

CHEM-59600	Introduction to Research OR
PHYS-59600	Introduction to Research
CHEM-69600	Graduate Seminar
	(Multiple enrollments for a total of
	2 credit hours)
	OR
PHYS-69600	Graduate Seminar
	(Multiple enrollments for a total of
	2 credit hours)
CHEM-69800	Master's Thesis
	(Multiple enrollments for a total of
	6 credit hours)
	OR
PHYS-69800	Master's Thesis
	(Multiple enrollments for a total of
	6 credit hours)

III. ELECTIVES (6 CREDIT HOURS)*

CHEM-50200	Strategic Organic Chemistry
CHEM-52000	Advanced Analytical Chemistry
CHEM-60000	Physical Inorganic Chemistry
CHEM-60200	Advanced Biophysical Chemistry
CHEM-65200	Computational Chemistry
CHEM-62100	Materials Chemistry
CHEM-62300	Supramolecular Chemistry
CHEM-68000	Special Topics in Chemistry
CHEM-68500	Readings in Chemistry
PHYS-50600	Mathematical Methods for the Physical
	Sciences
PHYS-51800	Applied Modern Optics
PHYS-64000	Advanced Quantum Mechanics
PHYS-64200	Semiconductor Physics and Devices
PHYS-68000	Special Topics in Physics
PHYS-68500	Readings in Physics

*Up to 6 hours of graduate coursework in other related disciplines may be chosen with the approval of your advisor and graduate program director.

Life after Lewis

Upon graduation from this program, you can potentially bring your new skills to the following areas:

- Chemist
- Chemical Engineer
- Materials Scientist
- Environmental Scientist
- Teacher

MASTER OF SCIENCE IN C



Learn how great an e ect you can have in advancing engineering, computing and other areas.

С

Ic m

From pondering the origins of the universe to designing better electronic memory devices, Lewis University's Master of Science in Physics will give you the skills to impact the world in extraordinary ways. By teaming with faculty who are real-world experts with strong industry connections, you'll gain practical experience working with companies to solve real-world problems. Upon graduation, you'll have the credentials people look for and enjoy increased opportunities, including the potential to take on a position as a research associate or at a teaching institution. You will learn to:

- Demonstrate in-depth knowledge and comprehension of the core concepts of physics
- Exhibit a functional knowledge of all basic areas of physics, including mechanics, electricity and magnetism, thermodynamics and quantum mechanics
- Display quantitative, qualitative and technical skills central to physics
- Conduct scholarly activities in an ethical manner
- Produce and defend a research project

Degree Requirements

D		Off		: Physics	(M.S.)
Т	C	ł	Η	R	: 30

I. CORE COURSES (12 CREDIT HOURS)

PHYS-50500	Classical Mechanics
PHYS-53000	Statistical Mechanics and
	Thermodynamics
PHYS-64000	Advanced Quantum Mechanics

II. SKILLS AND RESEARCH (9 CREDIT HOURS)

PHYS-59600	Introduction to Research	
PHYS-69600	Graduate Seminar	
	(Multiple enrollments for a total of	
	2 credit hours)	
PHYS-69800	Master's Thesis	
	(Multiple enrollments for a total of	
	6 credit hours)	

III. ELECTIVES (9 CREDIT HOURS)

PHYS-50600 Mathematical Methods for the Physical Sciences PHYS-51800 **Applied Modern Optics** PHYS-54100 **Quantum Mechanics** PHYS-54200 **Condensed Matter Physics** PHYS-54300 Nuclear and Particle Physics PHYS-61800 Advanced Modern Optics PHYS-64200 Semiconductor Physics and Devices PHYS-68000 **Special Topics in Physics** PHYS-68500 **Readings in Physics** CHEM-68500 Readings in Chemistry

*Up to 9 hours of graduate coursework in other related disciplines may be chosen with the approval of the advisor and graduate program director.

Life after Lewis

Upon graduating from the program, you can bring your new skills to the following areas:

- Nuclear Physics
- Geophysics
- Astronomy
- Astrophysics
- Engineering Physics
- Teaching
- Computer Science

Admission Requirements

- A baccalaureate degree in Physics from a regionally accredited institution of higher education or in a major in a related field.
- A minimum undergraduate GPA of 3.0 on a 4.0 scale.
- A completed application for graduate admission with \$40 application fee.
- Official transcripts from all institutions of higher education attended.
- A one- to two-page personal statement describing your background and how this

A _ N !

Applying to Lewis University is simple:

- Complete the Graduate Application at lewisu.edu/apply.
- Submit the necessary transcripts and/or supporting documents listed in the Admission Requirements section of your program of interest.
- Mail the \$40 application fee.

Start taking your career to the next level today!

Why more graduate students choose Lewis

Take a closer look at Lewis and you'll find we're more than a place to get your next degree. We're a respected, state-of-the-art institution of higher learning that's been recognized by renowned publications.

at's because we employ a values-based, ethically focused approach to education from faculty who are experts in their fields. ey understand your need to balance work, family and education and work with you to accomplish your educational goals while providing the support you need. See for yourself:

- State-of-the-art laboratory equipment, such as a fluorescent microscope and 96-well plate reader, in a LEED certified science center with more than 31 environmentally friendly features, including its innovative design, indoor environmental quality, solar powered pathway lighting, water efficiency and more
- Utilize work done for your employer
 as your research project
- Recognized as a Top 25 Regional University in the Midwest by U.S. News & World Report
- Named #1 best private college value in Illinois by Great Value Colleges
- Small, interactive classes help you grow with your peers, led by dedicated faculty who are experts in their field with real-world experience
- Employer tuition discount and deferral plans make Lewis one of the most affordable private universities in the Chicago area

Let us talk with you about funding your education

We're dedicated to making your degree as a ordable as possible. at's why Lewis o ers transfer-friendly credit policies, employer tuition discounts and tuition deferral plans. You might also qualify for Federal Sta ord Loans, veterans' benefits or scholarships. Put all those pieces together and you'll find that we're one of the most a ordable private Universities in the Chicago area. To apply for financial aid:

- Submit your application for admission at lewisu.edu/apply.
- Complete the Free Application for Federal Student Aid (FAFSA) at fafsa.ed.gov and use 001707 for Lewis' school code.
- If your FAFSA application is selected for verification, Lewis will request additional documentation (IRS tax transcript, verification of child support, etc.). The IRS Data Retrieval process provides the easiest way to meet these requirements.
- Within two weeks upon acceptance to Lewis and completion of the FAFSA, notification of financial aid eligibility will be mailed to your address on file. Simply follow the steps outlined in the packet.
- If you're awarded financial aid, you must complete the Entrance Counseling and Direct Stafford Loan Promissory Note (MPN) upon receiving your Financial Aid Award Letter.



For More Information

g[·]ad@e[·].ed

(815) 836-5610

Fax (815) 836-5578