Paleontology is a basic science concerned with the evolutionary history of life. Students are required to have a broad knowledge base of biological and geological knowledge. Areas of detailed knowledge will include vertebrate and invertebrate paleobiology, evolutionary biology, systematics, functional morphology, sedimentology, stratigraphy, and plate tectonics.

UTM Biology is a dynamic community. With over two dozen active research scientists, more than forty graduate students and many post-doctoral fellows doing state-of-the-art research using the latest techniques, our students will have the opportunity to learn from the best. Our undergraduate research projects and summer student placements in research labs will give students valuable, first-hand experience working in a laboratory environment.

Programs of Study (POST)

- Major Program ERMAJ1004 Paleontology (Science)
- Major Program ERMAJ2364 Biology (Science)

Check out...

Why not interpret ancient geological environments on the north shore of Lake Huron? Apply to ERS325H5 (Field Camp I). Get excited about vertebrate form and function! In BIO354H5 the design and adaptive consequences of vertebrate structure are revealed.

What can I do with my degree?

The career you choose will depend on your experience and interests. Visit the Career Centre to explore your career options.

Careers for Graduates: Curator; Survey technician; Taxidermist; Paleontologist; Research consultant; Field technician/director; Epidemiologist; Museum technician; Primatologist; University professor; Laboratory technician; Archivist; Preservationist/restorer.

Workplaces: Government; Scientific R&D; Non-profit agencies; Conservation authorities; Zoos, aquariums, national/provincial parks; Academic medical centres/laboratories; Universities and colleges; Museums.

MAKE THE MOST OF YOUR TIME AT UTM!

We want to help you maximize your university experience, so we’ve pulled together information and interesting suggestions to get you started, although there are many more! As you review the chart on the inside pages, note that many of the suggestions need not be restricted to the year they are mentioned. In fact, activities such as joining an academic society, engaging with faculty and seeking opportunities to gain experience should occur in each year of your study at UTM. Read through the chart and create your own plan using My Program Plan found at www.utm.utoronto.ca/program-plans
# HOW TO USE THIS PROGRAM PLAN

Read through each year. Investigate what appeals to you here and in any other Program Plans that apply to you.

Visit [www.utm.utoronto.ca/program-plans](http://www.utm.utoronto.ca/program-plans) to create your own plan using My Program Plan. Update your plan yearly.

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## 1ST YEAR

<table>
<thead>
<tr>
<th>Enrol in courses BIO150H5, 153H5, CHM110H5, 120H5, MAT134Y5/135Y5/137Y5; and ERS101H5/ERS311H5. Attain 1.0 credit from the second list of required first year courses in the Academic Calendar. Choose a program of study (Subject POSt) once you complete 4.0 credits. Use the Degree Explorer Planner and the Academic Calendar to plan your degree. Start strong and get informed with your campus. Join a Program Selection &amp; Career Options appointment, or book a CC Facilitated Study Group Leader appointment.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PLAN YOUR ACADEMICS</strong></td>
</tr>
</tbody>
</table>

## 2ND YEAR

| Enrol in courses BIO210Y5, ERS201H5, 202H5, 203H5, ESS261H1, and STA215H5. Consider applying for the Research Opportunity Program (ROP) courses BIO209Y5 and BIO399Y5. Visit the EEU website for ROP Course Prerequisites. Attend the RGASC's P.A.R.T. to enhance your research skills. |
| **PLAN YOUR ACADEMICS** |

## 3RD YEAR

| Enrol in courses ERS325H5, BIO365H5, 356H5, and ESS331H1. Throughout your undergraduate degree:  
| - use the Degree Explorer to ensure you complete your degree and program requirements.  
| - see the Office of the Registrar about degree requirements and the Biology Undergraduate Advisor about program requirements. |
| **PLAN FOR YOUR FUTURE** |

## 4TH OR FINAL YEAR

| Attain 1.0 additional BIO credits. Ensure you have at least 5.0 credits at the 300/400 level, of which 1.0 must be at the 400 level. Carry out your degree requirements. Complete the Research Opportunity Program (ROP) courses BIO209Y5 and BIO399Y5. Visit the EEU website for ROP Course Prerequisites. Attend the RGASC's P.A.R.T. to enhance your research skills. |
| **PLAN FOR YOUR FUTURE** |

## BUILD SKILLS

| Use the Co-Curricular Record (CCR). Search for opportunities beyond the class room, and keep track of your accomplishments. Use the Career Learning Network (CLIN) to find postings for on- and off-campus work and volunteer opportunities as well as Work-Study. Ask your professor about volunteering in their lab. |
| **BUILD SKILLS** |

## BUILD A NETWORK

| Networking simply means talking to people and developing relationships with them. Start by joining the Erindale Biology Society (EBS). Follow them @utmtEBS. Go to the EBS Meet the Prof Night, or the Biology department's Walk with your Professor. Visit the UTM Library Reference Desk. |
| **BUILD A NETWORK** |

## BUILD A GLOBAL MINDSET

| Attend events held by the International Education Centre (IEC), whether you are an international or domestic student. Explore different cultures through food, music, and sport or through sightseeing around the GTA. Start with the International Education Week events and learn about the diversity, culture, and international opportunities on campus! Interested in deepening your global perspective? Register for the Global Citizenship Certificate offered by the IEC. Get involved with a Community Action Project through the CSE and build your skills in intercultural communication and teamwork! |
| **BUILD A GLOBAL MINDSET** |

## PLAN FOR YOUR FUTURE

| Explore careers through the CC's Extern Job Shadowing Program. Ask the Biology Undergraduate Assistant about the BioPath Professional Development Program. Considering further education? Attend the CC's Graduate and Professional Schools Fair. Talk to professors — they are potential mentors and references for further education. |
| **PLAN FOR YOUR FUTURE** |

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*Consult the Academic Calendar for greater detail on course requirements, program notes and degree requirements.

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## HOW TO USE THIS PROGRAM PLAN

Read through each year. Investigate what appeals to you here and in any other Program Plans that apply to you.

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**P.A.R.T.**  
**ROP Course Prerequisites**  
**Green Ambassador**

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**BA**  
**OD**

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**Biology Seminar Series**  
**GoinGlobal**  
**Canadian Geological Association of Canada**  
**Canadian Society of Vertebrate Palaeontology**  
**Canadian Paleontology Conference**

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**Grad Connect**  
**Career Counselling**  
**Experiential Education Unit (EEU)**  
**Graduate Connect**  
**LAUNCH Leader**  
**Peer Facilitated Study Group Leader**  
**Research Opportunity Program (ROP)**

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**Consult the Academic Calendar for greater detail on course requirements, program notes and degree requirements.**

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**Visit [www.utm.utoronto.ca/program-plans](http://www.utm.utoronto.ca/program-plans) for the online version and links.**

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Revised on: 6/21/2018

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*Consult the Academic Calendar for greater detail on course requirements, program notes and degree requirements.*
PALEONTOLOGY

Skills developed in Paleontology

To be competitive in the job market, it is essential that you can explain your skills to an employer. Visit the Career Centre to learn how to articulate and market the following skills:

Communication & interpersonal: write scientific reports; present research findings; interact professionally with a multidisciplinary team of researchers, technicians, students and professors; and literacy writing.

Research: define a problem; establish hypotheses; gather scientific data; analysis of materials; and review scientific literature.

Technical: use specialized computer programs; perform laboratory procedures; maintain laboratory equipment and instrumentation; and comply with quality control procedures.

Quantitative: analyze data for trends and apply statistical tests to data.

Critical thinking & problem-solving: logically interpret trends and results.

Services that support you

- Accessibility Services (AS)
- Career Centre (CC)
- Centre for Student Engagement (CSE)
- Experiential Education Unit (EEU)
- Health & Counselling Centre (HCC)
- Indigenous Centre (IC)
- International Education Centre (IEC)
- Office of the Registrar (OR)
- Recreation, Athletics and Wellness Centre (RAWC)
- Robert Gillespie Academic Skills Centre (RGASC)
- UTM Library, Hazel McCallion Academic Learning Centre (HMALC)

Get involved

Check out the 100+ student organizations on campus. Here are a few:

- Erindale Biology Society (EBS)
- UTM Student Union (UTMSU)
- UTM Athletics Council (UTMAC)

For a listing of clubs on campus visit

www.utm.utoronto.ca/clubs.

Department of Biology

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University of Toronto Mississauga
3359 Mississauga Rd
Mississauga ON Canada L5L 1C6

Undergraduate Advisor: 905-828-3999
D.matias@utoronto.ca
www.utm.utoronto.ca/biology

FUTURE STUDENTS

Admission to UTM

All program areas require an Ontario Secondary School Diploma, or equivalent, with six Grade 12 U/M courses, or equivalent, including English. The admission average is calculated with English plus the next best five courses. The Grade 12 prerequisites for this program are Advanced Functions, Biology and Chemistry. The approximate average required for admission is low- to mid-80s. More information is available at
utm.utoronto.ca/viewbook.

NOTE: During the application process, applicants will select the Life Sciences admissions category, but will not officially be admitted to a formal program of study (Specialist, Major, and/or Minor) until after first year.

Sneak Peek

Peel back the layers of the earth in ERS202H5 – a course that takes a close look at the dynamic evolution of the surface and of the interior of the Earth.

Effective biological training involves careful study of real organisms, both living and dead. Consequently, almost all Biology courses with laboratories involve students in one or more of the following activities with animals, plants, and/or microorganisms: collecting and preserving organisms from the field; dissecting or handling preserved or euthanized specimens (or properly anaesthetized living specimens); observing and making measurements on organisms maintained under laboratory conditions approved by the Canadian Council of Animal Care.

Student Recruitment & Admissions

Innovation Complex, Room 1270
University of Toronto Mississauga
3359 Mississauga Rd
Mississauga ON Canada L5L 1C6

905-828-5400
www.utm.utoronto.ca/future-students