

Origins Institute Undergraduate Research Specialization



The graphic features a central vertical axis with a white circle and crosshairs at the top, containing the text "Origins INSTITUTE". To the left of this axis is a list of activities: "Institute", "People", "Research", "Colloquia", "Undergraduate Research Specialization", "Conferences-Workshops", "Positions", and "Public Lecture Series". To the right is a list of research areas, each with a small icon: "Space-Time" (a blue and yellow sphere), "Structure in the Cosmos" (a blue and white globe), "Elements" (a blue and white atom), "Life" (a blue and white DNA helix), "Species and Biodiversity" (a blue and white bird), and "Humanity" (a blue and white hand). The background is a collage of scientific and artistic images: a purple molecular structure on the left, a bright yellow and orange nebula at the top, a blue and white galaxy in the upper right, a blue and white Earth with a comet streaking across it, a brown stone statue of a thinker in the lower right, and green ferns and orange mushrooms in the bottom right.

Origins
INSTITUTE

Institute
People
Research
Colloquia
Undergraduate Research
Specialization
Conferences-Workshops
Positions
Public Lecture Series

Space-Time
Structure in the Cosmos
Elements
Life
Species and Biodiversity
Humanity

origins.mcmaster.ca

Director, Ralph Pudritz

Associate Director, Jonathon Stone

Origins Institute

- Interdisciplinary research concerning the most fundamental questions in science – 6 themes:
 - Origin of space-time
 - Origins of the elements
 - Origin of structure in the cosmos
 - Origin of life
 - Origins of species and biodiversity
 - Origin of humanity

Three Intellectual Pillars

1) Research

- * Meetings, Postdoctoral Program

2) Public Outreach

- * Public Lectures

3) Education

- * Origins Research Specialization

- **Members:** Biochemistry and Biomedical Sciences, Biology, Chemistry, Mathematics and Statistics, Physics and Astronomy, Psychology, Arts & Science, Honours Science, partnerships with other world-class institutes

Origins Research Specialization

■ LEVEL I - similar to Science I:

BIOLOGY 1A03, 1AA3

CHEM 1A03

MATH 1A03

PHYSICS 1B03

3 units from MATH 1AA3, 1B03 (or 1D03), STATS 1CC3

3 units from ASTRON 1F03, PHYSICS 1BA3, 1BB3

3 units from CHEM 1AA3, ENVIR SC 1G03

Level I courses should be completed by the end of Level II

register in Core programme in home department; apply online

■ LEVEL II – 2 survey courses + 1 seminar

3 units from ORIGINS/SCI 2B03, ORIGINS 2FF3

3 units ORIGINS 2S03

■ LEVEL III - 2 specialized courses + 1 seminar

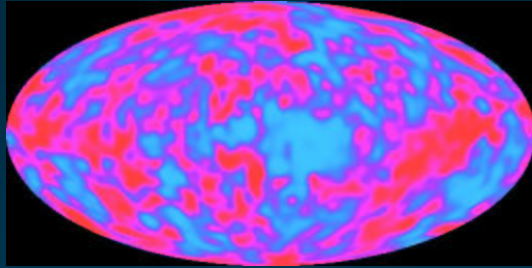
3 units from ORIGINS/SCI 2B03, ORIGINS 2FF3

6 units from the ORIGINS course list

3 units ORIGINS 3S03

■ LEVEL IV - senior research thesis

9 units ORIGINS 4A09



What's in it for you

any future attainable with Core programme
comprehensive perspective on natural science
exciting research on fascinating origins questions
meet and research with outstanding scientists
seminars, colloquia, public lectures
quality contact with professors
small class-sizes with committed students

