

NC STATE
UNIVERSITY

United Kingdom: STEM and Liberal Studies in London



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Aurian Eghbalian
Program Coordinator

The Faculty



Dr. Jack Harris
Assistant Teaching
Professor of Philosophy



Ms. Caitlin Stuckey
Senior Lecturer of
English



Dr. Kanton Reynolds
Dir. of Undergraduate
Programs for ISE



Dr. Tom Koch
Assoc. Department
Head, Performing Arts
and Technology

London

- Population of over 14 million (metropolitan area)
 - 41 percent of residents are foreign born
- 300 languages spoken
- Four World Heritage Sites
 - Tower of London
 - Royal Botanic Gardens at Kew
 - Palace of Westminster and Westminster Abbey
 - Historic Greenwich settlement
- Underground “Tube” is the oldest in the world.
- Average July temperature is 75 degrees.
- One of the World’s Greenest Cities with 40% green space or open water.



Program Dates:

Depart for London from the US:
Saturday, June 27

Arrive in London: Sunday, June
28

Depart for the US: Saturday,
August 1

Program Cost: \$7,250

Four courses available; choose
TWO (for a total of 6 credit hours)

- ENG 331: Communication for Engineering and Technology
- ISE 311: Engineering Economic Analysis
- MUS 215: The Beatles and the British Invasion
- PHI 325: Biomedical Ethics

Course Prerequisites

ENG 331

- Junior or Senior standing by program start date (*no exceptions*)

ISE 311

- MA 141 (Calculus 1)

PHI 325

- Junior or Senior standing by program start date
- Sophomores *may* take this course if they have a cumulative GPA of 3.0 or higher

MUS 215

- No prerequisites!

ENG 331: Communication for Engineering and Technology

Caitlin Stuckey
Professional Writing Program



Requirement for a Variety of Majors

Why?

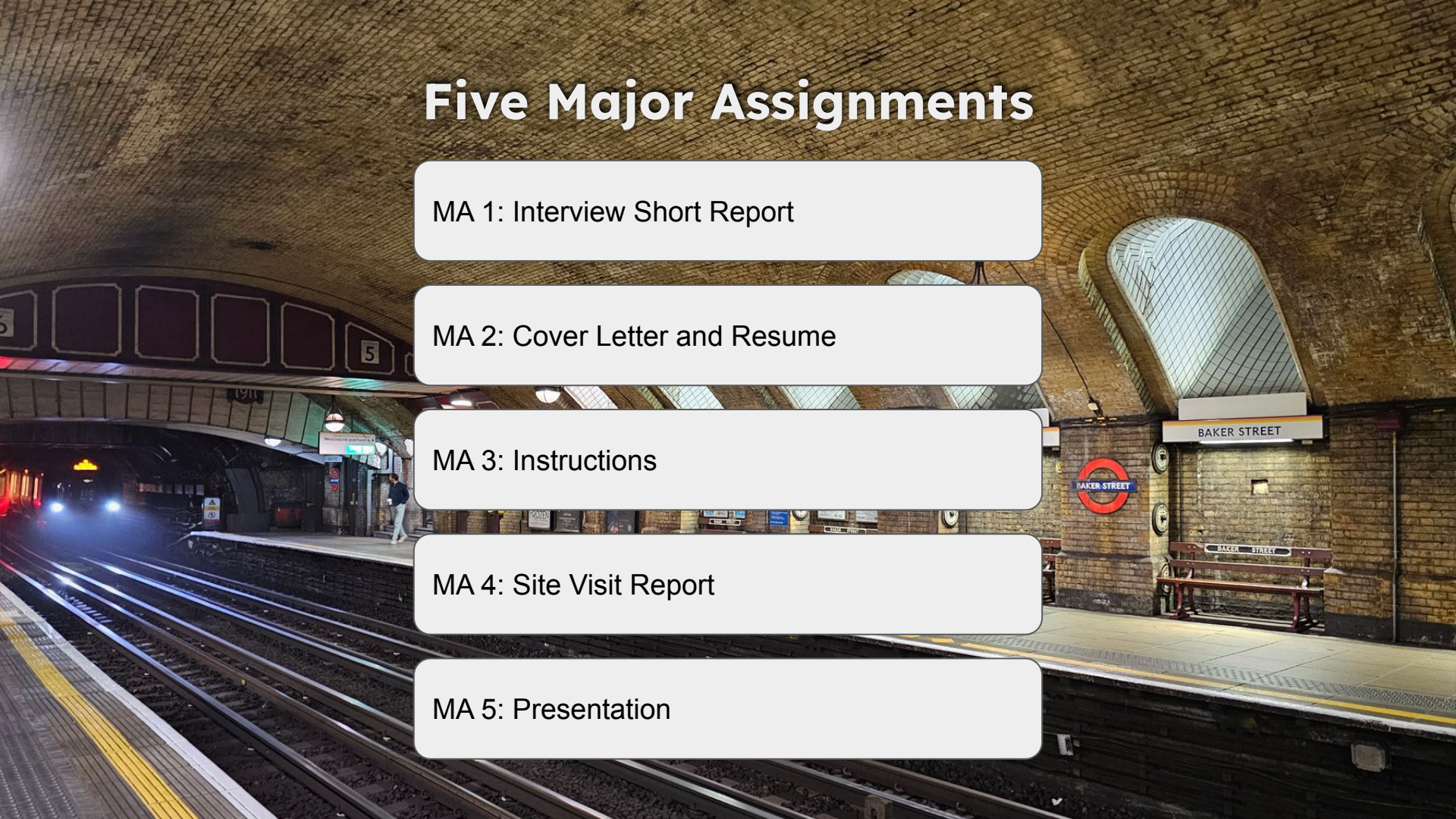
- “Study abroad allows students to develop skills required to face the grand challenges of society – deepen intercultural sensitivity, think more critically and creatively, and broaden both personal and academic perspectives. Distinguish yourself from your peers by developing skills in independence, flexibility, and the ability to deal with ambiguity.” ([COE, “International High-Impact Experiences”](#))

Who?

44 majors total / 13 majors SA 2025

- Engineering: Aerospace, Civil, Computer, Electrical, Industrial, Mechanical, etc.
- Industrial, Mechanical, Civil, Computer, Environmental, Aerospace, Textile Engineering/Technology, Biochemistry, Biological Sciences, Materials Science and Engr., Psychology, Intl. Studies

Five Major Assignments

The background of the slide is a photograph of a London Underground station. The station has a high, vaulted brick ceiling and brick walls. In the foreground, there are railway tracks with a yellow safety line on the platform. To the right, a platform sign reads 'BAKER STREET' above a red circular London Underground roundel logo. A wooden bench is also visible on the platform. In the distance, a train with its headlights on is approaching the platform.

MA 1: Interview Short Report

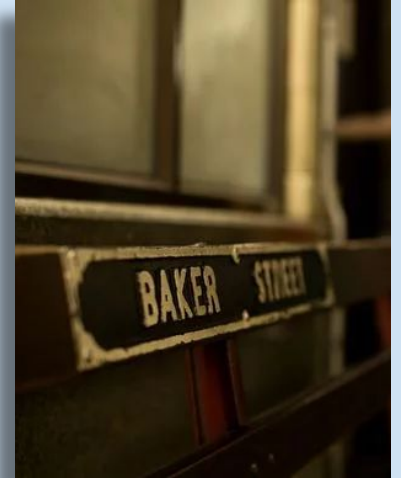
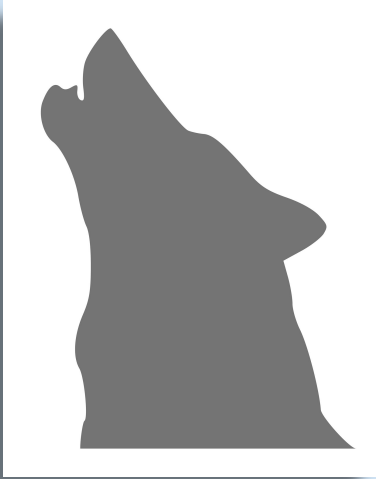
MA 2: Cover Letter and Resume

MA 3: Instructions

MA 4: Site Visit Report

MA 5: Presentation

Experience-Based Projects



PHIL 325

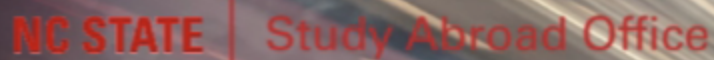
Bio-medical Ethics

United Kingdom: STEM and Liberal Studies in London

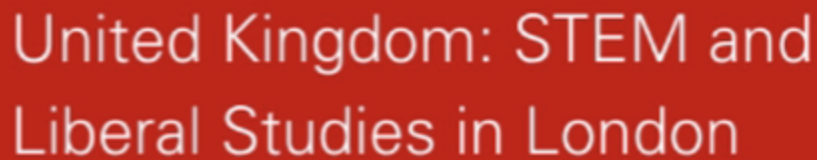
Jack Harris Ph.D., M.A.



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"Biomedical Ethics" encompasses the examination of the ethics of all biomedical research, medicine, and health care.

In this course you will:

- Understand how biomedical ethicists analyze questions, namely through the dominant 'four principle' framework.
- Develop critical thinking and writing skills
- Learn about regulatory frameworks, health care systems, and legal decisions related to health care, and comparing those of the US to those of the UK.



- You will, most of all, learn think like a medical ethicist, either at the population-level, the clinical level, or both.
- What do medical ethicists do? Medical ethicists "identify, analyze, and resolve value uncertainty or conflict arising in the context of providing medical care to a patient," particularly regarding the four principles of medical ethics. (Hynds, 2018, 85)



Course of Study

- Week 1: Moral Theory (Utilitarianism, Kantianism, Liberal Egalitarianism)
- Week 2: The Four Principles, Case Studies (including Charlie Gard, a well-known UK case)
- Week 3: A Right to Healthcare
- Week 4: Organ Transplantation / Aid in Dying
- Week 5: Reproductive Healthcare / Editing and Enhancement

What is unique to the UK Course?

Guest lectures by prominent bioethicists.

Opportunities to attend bioethics talks in the greater London area.

Opportunities to learn about the NHS (e.g. museum trips).

Learn about ubiquitous real-life ethical issues in a global metropolis!



Course Expectations

	2 Short Papers	1 Final Paper	2 Quizzes	Participation
Weight	17.5% each	30%	10% each	15%

Should I take this course?

- Philosophy classes are at least 1/3 discussion - come prepared to talk!
- Note that this is a reading and writing intensive course.
- Why take a philosophy course? It improves your mental dexterity, analytical skills, communication abilities, and reading and writing aptitudes. Philosophy skills are useful in many different fields (e.g. biomedical engineering, political science, psychology, or aspirants for law or medical school). Come join us in London!

MUS 215: The Beatles and The British Invasion

- Humanities
GEP

Tom Koch, PhD
Teaching Professor
in Dept of
Performing Arts and
Technology



United States' Response to the British Invasion



The Interpretations of 1960s British Rock

THE BEATLES vs THE ROLLING STONES



The Division of 1960s British Rock



The Experimentations of 1960s British rock



The Commercialism of the British Invasion



The Music of the British Invasion

STRAWBERRY FIELDS FOREVER

Words and Music by JOHN LENNON
and PAUL MCCARTNEY

Moderately
♩ = 84

The musical score for 'Strawberry Fields Forever' is presented in a piano-vocal format. It begins with a piano introduction in 4/4 time, marked 'Moderately' with a tempo of 84 beats per minute. The key signature has one flat (Bb). The piano part features a sequence of chords: F, Am/E, Adim/Eb, Gm, and F/C. The vocal melody enters in the second measure with the lyrics 'Let me take you down, 'cause I'm going to Strawberry Fields. Nothing is real, and nothing to get hung about.' The score includes various musical notations such as slurs, ties, and dynamic markings like 'mf' and 'p'. The piano accompaniment consists of a steady eighth-note bass line and a more complex treble line with chords and melodic fragments.

Let me take you down, 'cause I'm going
to Straw - ber - ry Fields. Noth - ing is
real, and noth - ing to get hung a - bout.

UK STEM Study Abroad ISE 311 – Engineering Economic Analysis

Kanton Reynolds, Ph.D.
**Director, ISE Undergraduate
Programs**
&
**Teaching Associate
Professor**



Cost/Decision Making Concepts for Capital Expenditures

- Where do we locate new facilities?
- Where do we source parts from? What does our supply chain/procurement processes look like?
- What processes should we automate?
- What operations should be contracted out or moved back in house?

Discounted Cash Flows/Time Value of Money

- How do we best invest our resources given the prevailing economic landscape?
- What investments will yield the highest returns?

Alternatives Analysis/Replacement Analysis

- How do we decide when/where to replace older equipment.
- How do we decide where to make something or if we should simply purchase it?

Cost Estimation/Inventory Analysis

- Where do we hold our inventory? In country of origin or closer to the distribution site as finished goods?
- How do we customize our product to make it acceptable for local markets? (EU translates everything into all 24 languages)

On-site Details



Academic Facilities and Onsite Support: Anglo Education Services (AES)



- Anglo Education Services (AES) to coordinate housing, classroom space and other onsite logistics
- Access to computers, internet, photocopying, and printing
- Classroom space is air conditioned (this is a luxury) with plenty of natural light
- Full-time reception Monday-Friday

THE TUBE



Flat Life in London

- Centrally located in London
- Residential - One, two, and three bedrooms
- All have common lounge, tv, and equipped kitchen
- Wi-fi included
- 2-6 NC State students per flat, depending on # of rooms
- Utilities, bed linens, and weekly apartment cleaning are included



Estimated Cost of Attendance

Billable Amounts

Setup Fee ⓘ due at the time of application, paid w/in application	\$75.00
Study Abroad Fee ⓘ due at the time of commitment, paid w/in application	\$375.00
NC State Program Cost ⓘ see notes below for more information	\$7,250.00

Billable Total: \$7,700.00

Non-Billable Amounts

Passport ⓘ	Not Applicable ☐	\$165.00
International airfare ⓘ estimated		Amount * \$ 1,650.00
Meals estimated		Amount * \$ 600.00
Personal expenses ⓘ estimated		\$350.00
Text book and supplies estimated		\$150.00
UK Electronic Travel Authorization (ETA) ⓘ estimated		Amount * \$ 21.00
Adjustments, additional expenses update to include any additional costs/personal expenses		Amount * \$ 0.00

Non-Billable Total: \$2,936.00

Program Cost Includes

- Course instruction for 6 NC State credits, including required course site visits
- Central London Housing
- Tube pass (zones 1 and 2)
- Arrival orientation
- Welcome and Farewell Meals
- Full support services of Anglo Ed Services (AES)
- International Health Insurance
- Networking event with NC State Alumni living in London
- Cultural Tours/Activities
 - London Walking Tour
 - Westminster Abbey Tour
 - Afternoon Tea
 - Tower of London Tour
 - West End Theatre Performance



Funding your study abroad

•Scholarships

- [NC State Study Abroad scholarships](#) - deadline **November 15th!**
- [Gilman](#) – up to \$5,000; must be Pell grant eligible | March 2026 deadline
- [Outside scholarships](#) - Various Deadlines
 - studyabroad.com, DiversityAbroad.com, others...

•Financial Aid

- Financial aid travels with you
- Connect with a financial aid advisor regarding aid available.

•Alternative Personal Funding

- Online fundraising, local rotary/town hall, religious organizations, family employers...
- Personal or private loans
- ◦ Set a budget and stick to it!



Apply Today!

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