**MSc Developmental Neuroscience and Psychopathology: Course Structure**

See below for a list of modules and module descriptions. Please note that this course is reviewed continuously and so this information is subject to change in future years.

**Year 1**

<table>
<thead>
<tr>
<th>Title</th>
<th>An Introduction to Psychoanalytic Theory</th>
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</thead>
<tbody>
<tr>
<td>UPC Code</td>
<td>PSYCGP33</td>
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<tr>
<td>Department</td>
<td>Brain Sciences</td>
</tr>
<tr>
<td>Organiser</td>
<td>Dr Alejandra Perez</td>
</tr>
<tr>
<td>Year</td>
<td>1</td>
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<tr>
<td>Taken by</td>
<td>Psychoanalytic Developmental Psychology</td>
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<td></td>
<td>Developmental Neuroscience and Psychopathology</td>
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<td></td>
<td>Developmental Psychology and Clinical Practice</td>
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<tr>
<td>Aims and Objectives</td>
<td>This module is focused on introducing students to the core concepts of psychoanalytic theory. Through the detailed reading and discussion of contemporary psychoanalytic theoretical and research papers as well as key early papers, this course aims to outline a range of psychoanalytic theories and explore the contribution that psychoanalytic thinking can make to an understanding of the mind.</td>
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<tr>
<td>Lectures</td>
<td>Autumn Term 1.25 hour weekly lecture and 1 hour weekly seminar</td>
</tr>
<tr>
<td>Assessment</td>
<td>One 3,000 word essay</td>
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<table>
<thead>
<tr>
<th>Title</th>
<th>The Clinical Theory of Psychoanalysis</th>
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</tbody>
</table>
| Taken by               | Psychoanalytic Developmental Psychology  
|                       | Developmental Neuroscience and Psychopathology  
|                       | Developmental Psychology and Clinical Practice  
| Aims and Objectives   | This module is focused on the clinical theory of psychoanalysis. Through the detailed reading and discussion of contemporary psychoanalytic theoretical and research papers as well as key early papers, this course aims to outline psychoanalysis as a method of treatment. Some of the areas this course will explore are: the nature of a psychoanalytic treatment; the psychoanalytic setting; psychoanalytic assessment and diagnosis; transference; counter-transference; and change process.  
| Lectures              | Spring Term 1.25 hour weekly lecture and 1 hour weekly seminar  
| Assessment            | One 2 hour unseen exam  
| Title                 | **Multiple Perspectives on Child Development 1**  
| UPC Code              | PSYCGN40  
| Department            | Life Sciences  
| Organiser             | Dr Lucy Maddox  
| Year                  | 1  
| Taken by              | Developmental Neuroscience and Psychopathology  
|                       | Developmental Psychology and Clinical Practice  
| Aims and objectives   | This module will consider the systemic contexts for child development in terms of family networks, extended families, school and peer-groups, professional systems and cultural contexts. Emotional and social development in terms of attachment, theory of mind and mentalisation will be covered.
Sample bibliography


Lectures Autumn Term 1.25 hour weekly lecture and 1 hour weekly seminar

Assessment One 2 hour unseen exam

title

**Multiple Perspectives on Child Development 2**

UPC Code PSYCGN41

Department Life Sciences

Organiser Dr Lucy Maddox

Year 1

Taken by Developmental Neuroscience and Psychopathology

Developmental Psychology and Clinical Practice

Aims and Objectives The second half of the child development module will focus more on topics from chronological development of an individual infant. The intention is still to draw on multiple perspectives and to bear in mind the systemic and relational understanding gained from term I.


Lectures Spring Term 1.25 hour weekly lecture and 1 hour weekly seminar

Assessment One 3,000 word essay
### Developmental Disorders from Multiple Perspectives

**Title**: Developmental Disorders from Multiple Perspectives  
**UPC Code**: PSYCGN22  
**Department**: Brain Sciences  
**Organiser**: Dr Lionel Bailly & Dr Eamon McCrory  
**Year**: 1  
**Taken by**: Developmental Neuroscience and Psychopathology Developmental Psychology and Clinical Practice  
**Aims and Objectives**: Using cognitive, neuroscientific and psychoanalytic perspectives, this module aims to explore presenting disorders of childhood by considering a range of approaches in order for students to become familiar with different approaches to child psychopathology. Clinical examples are provided where appropriate.  
**Sample bibliography**:

**Lectures**: Autumn Term Weekly 1.5 hour lecture and 1 hour weekly seminar  
**Assessment**: One 3,000 word essay

### Evaluating Clinical Interventions

**Title**: Evaluating Clinical Interventions  
**UPC Code**: PSYCGN42  
**Department**: Brain Sciences  
**Organiser**: Dr Julian Childs  
**Year**: 1  
**Taken by**: Developmental Neuroscience and Psychopathology Developmental Psychology and Clinical Practice  
**Aims and Objectives**: The module first introduces students to the theories of evidence-based practice and practice-based evidence. Next, methodological approaches to carrying out evaluations...
Objectives of clinical interventions are described, focusing on routine outcome monitoring. Then, statistical approaches to analysing evaluations of clinical interventions will be presented, and alternative perspectives on the strengths and limitations of evaluations of clinical interventions will be explored. Throughout, the focus of the module will be on understanding the key principles and practicalities of evaluating clinical interventions and how to apply this understanding to the types of evaluations students may be conducting during their CAMHS or Yale placements.

Sample bibliography


Lectures

Summer Term weekly 2.5 hour lectures

Assessment

One 3,000 word written assignment

Title Introduction to Neuroscience Methods

UPC Code PSYCGN24

Department Brain Sciences

Organiser Dr Amy Palmer

Year 1

Taken by Developmental Neuroscience and Psychopathology

Aims and Objectives This module presents an introduction to a range of methods for studying the brain and cognitive and affective processing, including: fMRI, EEG, PET, Neuropsychology, TMS, and Neuropsychoanalysis.

Sample bibliography


### Affective Neuroscience

**Title**: Affective Neuroscience  
**UPC Code**: PSYCGN25  
**Department**: Brain Sciences  
**Organiser**: Dr Alice Jones (currently on maternity leave)  
**Year**: 1  
**Taken by**: Developmental Neuroscience and Psychopathology

**Aims and Objectives**: This module aims to introduce students to current research in the field of affective neuroscience. This will consider neuro-cognitive models and neurobiological evidence pertaining to a range of emotions and how specific neural circuitry is associated with different aspects of affective response and regulation. There will be an emphasis on evidence from the developmental literature.

**Sample bibliography**

**Lectures**: Summer Term weekly 2.5 hour lectures  
**Assessment**: One 2 hour unseen exam

### Research Skills

**Title**: Research Skills  
**UPC Code**: PSYCGN26  
**Department**: Brain Sciences  
**Organiser**: Dr Alice Jones (currently on maternity leave)  
**Year**: 1

**Lectures**: Spring Term weekly 2.5 hour lectures  
**Assessment**: One 2 hour unseen exam
Aims and Objectives

This course covers topics in qualitative and quantitative research methods. Includes:
- conceptual framework for research, qualitative and quantitative methods, evaluating
  quantitative and qualitative studies, preparing research proposals, research design, and
  introduction to collecting and analyzing both quantitative and qualitative data. It also
  develops critical reading and evaluation skills, the techniques necessary to conduct
  literature searches (electronically and via libraries), and those relevant to writing up an
  empirical study.

Sample bibliography


Barker, C, Pistrang, N and Elliot, R (1994) Research Methods in Clinical and
  Counselling Psychology, Chichester: John Wiley.

  Stoughton.


Lectures

Summer term weekly 2 hour lectures

Assessment

One 3,000 word written assignment

Title

Research Methods: Introduction to Statistical Analysis

UPC Code

PSYCGN27

Department

Brain Sciences

Organiser

Dr Peter Martin

Year

1

Taken by

Psychoanalytic Developmental Psychology

Developmental Neuroscience and Psychopathology

Developmental Psychology and Clinical Practice

Aims and Objectives

The course will cover a range of topics in descriptive and inferential statistics including:
- sampling distributions, descriptive statistics, measures of association and measures of
  difference. Methods for evaluating reliability and validity will also be addressed. The
  emphasis will be on carrying out statistical tests using SPSS and interpreting and
  communicating the results of analysis effectively.

Sample bibliography


  Version 14.0 for Windows. London: John Wiley & Sons

Lectures Autumn/Spring Term 1.25 hour weekly lectures and 1-2 hours weekly computer laboratory sessions

Assessment One 2 hour unseen exam

Title *Research Methods: Evaluating Research Literature*

UPC Code PSYCGN28

Department Brain Sciences

Organiser Dr Eamon McCrory

Year 1

Taken by Developmental Neuroscience and Psychopathology

Aims and Objectives The course will involve weekly small group presentations in which individual students will present a current research article for evaluation and critical review by the group. The focus will be on helping students to evaluate the particular research design and methodology used.

Sample bibliography


Lectures 25 x weekly one hour small group seminars constituting a ‘Journal Club’

Assessment One 3,000 word Literature Review

Year 2

Title *Advanced Neuroscience Methods*

UPC Code PSYCGN33

Department Brain Sciences

Organiser Dr Helena Rutherford & Dr Brent Vander Wyk
Aims and Objectives
This module will provide students with a detailed overview of the mechanisms and applications of current spatial and temporal neuroimaging methods. These include fMRI, NIRS, EEG/ERP and MRS.

Sample bibliography
The primary text is Functional Magnetic Resonance Imaging, 2nd Edition by Huettel, Song, and McCarthy. Additional Readings are distributed via email or similar electronic method.

Lectures
Fall Semester weekly 1 hour lecture and 1 hour seminar

Assessment
One 2 hour unseen exam

Title
Clinical Applications of Neuroimaging

UPC Code
PSYCGN30

Department
Brain Sciences

Organiser
Dr Helena Rutherford and Dr Robert King

Year
2

Taken by
Developmental Neuroscience and Psychopathology

Aims and Objectives
This course provides complementary teaching of psychoanalytic and neuroscientific approaches to understanding clinical disorders in a series of parallel lectures. A range of clinical disorders are considered including: additions; bipolar disorder; psychosis; depression; anxiety and ADHD.

Sample bibliography
To be distributed via email or similar electronic method.

Lectures
Spring Semester weekly 1.5 hour lectures and weekly 1 hour seminars

Assessment
One 4000 word essay

Title
Research Dissertation

UPC Code
PSYCGN99

Department
Brain Sciences

Organiser
Dr Eamon McCrory

Year
2

Taken by
Developmental Neuroscience and Psychopathology

Aims and Objectives
Students undertake a piece of independent research under the supervision of a research mentor at Yale with additional input from a UCL affiliated 2nd supervisor.
During the first year in London students are paired with an individual academic research supervisor in Yale.

Students arrive in Yale by September of the second year. In the Fall all students must present their proposal (orally and in written form) to a group of Yale and UCL academics to garner feedback and make any necessary amendments. During the rest of the year each student must complete their research project. The final dissertation should contain a comprehensive literature review mindful of psychoanalytic perspectives.

Sample bibliography


Lectures

Students work independently throughout the year on their research projects, supported by an individual research mentor and a tutor.

Assessment

17,000 word dissertation