Please note this is a tentative syllabus and changes may be made to it prior to the course.

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Course Information  
Location: TBD  
Department of Psychology  
Times: TBD

Course Overview  
This course will provide an overview of theoretical perspectives and research on what emotions are, what functions they serve, and what roles emotions and emotion regulation play in many parts of our lives such as mental health, social relationships, and decision making. The readings will incorporate a wide array of tools that scientists have adopted to understand emotions at different levels of analysis, such as the use of physiological measures (including brain activity), behavioral measures, self-reports of experience, and data acquired through social media. To present different perspectives on the study of emotions, the course will cover research drawn from such fields as social psychology, clinical psychology and developmental psychology, as well as social and affective neuroscience. Concurrently, we will hone a scientific mindset by approaching readings, presentations, and writing assignments with a structured approach to scientific inquiry that helps us identify the major components of the research process when reading and thinking about scientific research (see the section on Article Presentations under Course Requirements).

This course will meet the following requirements:

- Group III (Social, Personality, and Abnormal) distribution requirement for Psychology majors, concentrators, and post-baccalaureate students, as well as for Engineering students minoring in Psychology.

- The fifth Psychology requirement (P5) for “one advanced psychology seminar from a list approved by the Psychology Department advisor to the program” for Neuroscience and Behavior majors.

- The seminar requirement for Psychology majors and post-baccalaureate certificate students who entered Columbia in Fall 2013 or later.

- One term of the social science requirement for GS students, provided that students obtain the necessary permissions and have taken the
prerequisite psychology courses. Majors will have priority over students who are taking the course for social science credit.

- The senior seminar requirement for Barnard Psychology majors.

**Prerequisites**

*Science of Psychology* (1001), *Mind, Brain, & Behavior* (1010), or an equivalent introductory psychology course, plus instructor permission. A prior course in statistics or research methods is recommended, but not necessary. If you do not have a psychology background and are interested in this course, please contact me to request permission before enrolling.

**Course Objectives**

The goals of this course are to enable you to do the following:

1. Understand the major psychological theories that define emotions and the functions emotions serve in our lives.
2. Develop a structured approach to scientific inquiry and apply it to the critical evaluation of research articles, presentation of scientific findings, and writing of research reports.
3. Design and write a proposal for a scientific study.
4. Use effective methods for quantifying emotional experiences and visualizing data.

**Course Requirements**

**Class Attendance, Readings, & Participation**

This course will meet twice a week for three hours. It is highly important in a seminar course to attend all classes and actively participate in discussions so that we are able to hear a diverse range of thoughts and ideas! Thus, your participation grade will depend on your active participation in discussions and your regular attendance in class. You will be expected to have read the assigned articles prior to class so that you are prepared to discuss them. If you feel that you may have a hard time with the participation component of the course, please come talk to me about it, so we can find a strategy that works for you.

**Courseworks Response Posts**

To prepare you for class discussions, you will be expected to post a brief comment on the Courseworks discussion board for each assigned article *prior to the start of every class*. This comment should consist of a summary of the article, thoughts that you have about it, and topics that you may want to discuss in class (What were the weaknesses or strengths of the article? What did you find interesting about it? Did it provide any new insight to your understanding of the
topic?). Postings that meet these criteria will receive full credit. Late postings will not be accepted.

**Article Presentations**

You will be responsible for presenting 1-2 articles in class with a Powerpoint presentation according to a format referred to as the “QuALMRI” structure. This acronym represents the major components of the research process: formulating a *Question*, devising a *hypothesis* and *Alternative hypotheses*, making *Logical connections*, coming up with *Methods* to test the hypotheses, understanding the *Results*, and making *Inferences* from the results. Following such a structure is conducive to understanding both the research you are reading about and research that you may design yourself. Hence, you will use this structure extensively throughout the course to develop a scientific way of thinking when reading articles, presenting research, and writing your own research proposal.

In the first class, I will give an introductory presentation to model the format of presentations according to the QuALMRI structure. In the second class, we will discuss the assigned readings as a group to ensure that everyone understands how to think about research according to this structure. For each of the following classes, one to three students will be assigned to present selected articles (indicated by an asterisk in the Course Schedule) and lead a discussion afterward. To prepare for your presentation, you will be required to either meet with me (during office hours or after class) to go over a draft of your presentation, or to email me a draft of your presentation at least 3 days in advance for feedback.

**Emotion Regulation Project: Exercising Emotional Awareness in New York City**

It is well documented that living in urban environments exposes people to greater stress and as a result, can be a risk factor for developing various physical and emotional disorders (Christenfeld et al., 1999; Kennedy & Adolphs, 2011). Fortunately, New York City has many outlets to help its residents cope with the stress of the hectic pace here! A few examples include the numerous green spaces, art museums/galleries, meditation centers, and yoga studios (the list goes on and on) that are available to help us take a break and recharge.

For this project, we will begin by brainstorming ideas in class for the various activities and options in New York City that help us maintain our mental health by regulating our emotions. You will select two of these options to partake in by the end of the semester (you are encouraged to choose activities that you have not tried before!). You will research tools that are available to quantify your emotions. This is most commonly done via questionnaires such as the Positive and Negative Affect Schedule (PANAS; Watson, Clark, & Tellegen, 1988, see references at the end of syllabus). You will select a measure to record your emotions before and after partaking in your chosen activities. You will then visualize your results to compare the options you selected graphically.
be done through Excel or other software. You are encouraged to be creative here.)

You will share your idea for this project as part of a presentation during the 6th class period and give a “flash talk” of your results during the last class. This talk should be 5-10 minutes in length (and consist of ~1-3 slides). In this presentation, you should present your data clearly and effectively in 1-2 slides (you may have one additional slide to provide an introduction to your project). You will also write a one-page summary of your project that considers issues involved with conducting emotion research based off of your experiences with this project. This exercise will give you hands-on experience with emotion measures used in research, and have you consider effective methods for representing data graphically as well as issues involved with designing studies that measure emotion.

Research Proposal
As a final paper, you will develop a research proposal for a study pertaining to a question that investigates an aspect of emotion. This paper will follow the QuALMRI format, should be between 8-10 pages (not including references), with at least 10 references. This paper should be written and cited in APA style and is due in class on the last class.

To prepare you for this paper, you will be required to submit outlines that will be graded, one that is presented as a Powerpoint during the 6th class, and a written outline (or draft) due on the 8th class. Details for these assignments will be presented in class and in a separate handout.

Grading
20% - Class Attendance and Participation
15% - Courseworks Response Posts (1.5% for every class)
15% - Article Presentation
15% - Emotion Regulation Project
   (5% Powerpoint Outline, 5% “Flash Talk” Presentation, 5% 1 page summary, each out of 100 pts)
35% - Research Proposal
   (10% Powerpoint Outline, 5% Written Outline, 20% Final Paper, each out of 100 pts)

Class Policies
Attendance & Participation
Class attendance and participation during discussions is of utmost importance in a seminar course. You are expected to attend all classes, to arrive on time, and to be prepared to actively contribute to the discussions by having completed the
required readings. You will need to provide a note from your doctor or advising dean for unexpected absences due to illnesses or emergencies. Each unexcused absence will result in a 2% deduction to your overall grade (a tenth of your class attendance/participation grade).

Written Assignment Submissions
Courseworks responses to the assigned articles must be posted prior to each class and postings for each class are worth 1.5% of your overall grade (a tenth of the Courseworks Response Posts grade). As these posts are intended to prepare you for class discussions on the readings, there will be zero credit for late submissions posted after the start of a class period. Extensions will be granted for late or missing postings due to an excused absence.

A late outline or final paper will result in a 5-point deduction on your grade for the assignment for each day it is overdue. In case of medical illnesses or emergencies, you must notify me as soon as possible for extensions to be considered.

Class Presentations
Learning to create and present effective Powerpoint presentations is an essential skill that you will likely use throughout your academic career and beyond. You will be expected to have finalized presentations in Powerpoint format for all class presentations (i.e., for assigned articles, emotion regulation project, and research proposal). If there is an important reason that will cause you to be unable to present on these days, you must notify me well in advance so that we can schedule you to present on another day. Failure to present on your assigned days without notifying me in advance will result in a score of 0 for those presentations, unless you have an excused absence for that day.

Technology Use
Out of consideration for the rest of the class, please refrain from any technology use that is not class-related. Laptop use is OK, but only for the purpose of taking notes during class.

Disability Services
If you are a student with a documented disability, please talk to me about the accommodations that you will need for this course. In addition, you should contact Disability Services (DS) at 212-854-2388 or disability@columbia.edu. Please see a full description of your rights and responsibilities on the following site:

http://www.college.columbia.edu/rightsandresponsibilities

Please note the following statement from the above site: “it is the responsibility of students to report any learning-related disabilities, to do so in a timely fashion, and to do so through the Office of Disability Services. Students who have
documented conditions and are determined by DS to need individualized services will be provided an DS-certified ‘Accommodation Letter’. It is students’ responsibility to provide this letter to all their instructors and in so doing request the stated accommodations."

Academic Integrity
Cheating and/or plagiarizing on assignments is a serious offense. You are expected to produce your own work on all assignments and to cite any sources that you have drawn from. Any instances of cheating or plagiarizing will be reported to the university for academic discipline and may result in a failing score on the assignment or in the course. Please refer to the full Faculty Statement on Academic Integrity at the following site:

http://www.college.columbia.edu/faculty/resourcesforinstructors/academicintegrity/statement

In particular, please note the following from the Faculty Statement on Academic Integrity: “as students, you must be responsible for the full citations of others’ ideas in all of your research papers and projects; you must be scrupulously honest when taking your examinations; you must always submit your own work and not that of another student, scholar, or internet agent. Any breach of this intellectual responsibility is a breach of faith with the rest of our academic community. It undermines our shared intellectual culture, and it cannot be tolerated. Students failing to meet these responsibilities should anticipate being asked to leave Columbia.”

Academic Support Services
If you need additional support with the material or assignments for this course, please come talk to me. I am happy to work with you to optimize your learning experience in this course. If you need extra support with writing assignments, you can contact the Writing Center at writingcenter@columbia.edu.
Tentative Course Schedule

For each class, articles are listed in a suggested reading order such that articles listed first may provide useful background information for subsequent articles. Under the discussion topics, I have listed questions that might guide your reading of the articles and provide ideas for discussions in class. Articles listed in the schedule are tentative and subject to change. See below for full citations.

*articles to be presented by students

<table>
<thead>
<tr>
<th>Discussion Topics</th>
<th>Required Readings For Class</th>
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<tr>
<td><strong>Week 1: Introduction to the Scientific Study of Emotions</strong></td>
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| 1 5/23 | Developing a Scientific Mindset  
* Introductions – meet & greet  
* Presentation of QuALMRI format and Satpute (2013)  
* Outline trajectory for semester  
* Set schedule for class presentations | 1. Satpute (2013)  
2. “Organizing Scientific Thinking Using the QuALMRI Framework” (Ochsner & Kosslyn) |
| 2 5/25 | Intro to Theories on Emotion  
* Group discussion on articles  
* How have emotions been defined? How have different researchers approached this question? Are these debates useful?  
* Can animals have emotions?  
* Discuss ideas for emotion regulation project | 1. Ekman (1971)  
3. Lieberman (2007) - *This is a helpful review to look through for getting oriented with many of the brain regions we will be discussing. In particular, read the Introduction and Self-Regulation sections.*  
Supplemental:  
4. “Brain Scientist: How Pixar’s ‘Inside Out’ Gets One Thing Deeply Wrong” (Barret & Barrett) |
| **Week 2: Basic Functions of Emotions (no class on Memorial Day, 5/30)** | |
| 3 6/1 | Anxiety, Fear, and Panic as Defensive Mechanisms  
* What distinguishes anxiety from fear, and fear from panic?  
* What are the neural regions involved in these emotions and what are the implications of their involvement? | 1. Adolphs (2005)*  
2. Mobbs (2009)*  
4. Feinstein (2013)* |
2. Hazan (1987)  
3. King (2006)* |
|---|---|
| Functions of Positive Emotions  
• Why have positive emotions been understudied as compared to negative emotions?  
• What are the differences between these two kinds of emotion research? | 5.3 |
| Decision Making and Morality  
• We often assume that emotions can “color” our judgments and bias them in detrimental ways. How might emotions actually serve to facilitate our judgments?  
• What are the differences and similarities between disgust and fear? | 1. Clore (2008)  
2. Bechara (2003)*  
4. Schnall (2008)* |
| Social Relationships  
• How do our social relationships affect our well-being?  
• How do emotions help us maintain our social relationships and navigate through the social environment? | 1. Keltner (1999)  
3. Fiske (2010) |
| Due: Present outline of Emotion Regulation Project and Research Proposal in Powerpoint |

2. Ochsner (2002)*  
3. Gee (2013)* |
|---|---|
| Emotion Regulation  
• What are “top-down” vs. “bottom-up” processes?  
• What neural regions are involved in “top-down” control of emotions? And for “bottom-up” affective responses?  
• How might this inform our understanding of how emotions developed across evolution? | 5.3 |
| Mindfulness and Emotional Awareness  
• Given our understanding of the processes underlying emotion regulation, how do you think being mindful and aware of our emotions can act as a regulatory process? | 1. Cresswell (2007)*  
2. Pennebaker (1997)*  
| Due: Written outline/draft of Final Paper for the research proposal |
| Week 5: Emotional Disorders and Dysregulation of Emotion |
| --- | --- | --- |
| 9 6/20 | Depression  
- Why is depression a more complex phenomenon than just feeling sad?  
- How might stress impact neural and cognitive processes, leading to depression?  
- What are the pros and cons of using animal models to study depression? | 1. Southwick (2012)  
3. Fales (2008)*  
4. Nolen-Hoeksema (1986)* |
| 10 6/22 | Dysregulation of Emotion  
- How does suppression differ from reappraisal as an emotion regulation strategy? How might this factor into the effectiveness of these strategies in regulating emotions? | 1. Heatherton (2011)  
2. Lopez (2014)  
3. Gruber (2011)  

| Week 6: Emotions on a Societal Scale |
| --- | --- | --- |
| 11 6/27 | Emotions Across Social Networks  
- How do you think the study of emotions through social networks may affect detection and diagnosis of psychological disorders in the future? | 1. Doré (2015)*  
2. Kramer (2013)*  
3. Hill (2010)* |
| 12 6/29 | Presentations and Course wrap-up | Due: “Flash Talk” Presentation of Emotion Regulation Project, 1 page summary of Emotion Regulation Project, Final Research Proposal (upload docs to CourseWorks) |

Course Readings

**Class 1: Developing a Scientific Mindset**

2. “Organizing Scientific Thinking Using the QuALMRI Framework”, written by Kevin Ochsner and modified by others (based on a scheme by Steve Kosslyn). (6 pgs)

**Class 2: Intro to Theories on Emotion**


Supplemental:


**Class 3: Anxiety, Fear, and Panic as Defensive Mechanisms**


**Class 4: Functions of Positive Emotions**


Class 5: Decision Making and Morality


Class 6: Social Relationships


Class 7: Emotion Regulation


Class 8: Mindfulness and Emotional Awareness

Class 9: Depression

Class 10: Dysregulation of Emotion

**Class 11: Emotions Across Social Networks**


**Class 12: Final Presentations**

No readings for this class

**References**

(these articles are for your reference and not part of the course readings)

