# Course Description
This course reviews basic principles of epidemiology, investigation of disease outbreaks and the application of various observational and experimental research designs and strategies to clinical, epidemiological and translational research. Didactic instruction, readings and problem sets (including lab-based analyses) are utilized to more fully understand epidemics and their causes, as well as various study designs, including cross-sectional studies, case-control studies, cohort designs and randomized clinical trials. Students also will learn how to design surveillance systems and develop and evaluate screening and diagnostic tests. Students are graded on in-class participation and two writing assignments (write-up of lab exercise and in-class student presentation). This is a full semester course with a total of 30 contact hours.

## Course Coordinator
Chrysanthopoulou, S  
email: Stavroula.Chrysanthopoulou@umassmed.edu  
Phone: 774-455-3616  
Location: AS7-1076

## Course Coordinator 2: None

## Prerequisites: None

## Credits: 3

## Grading: Letter

## Associated Programs: MS in Clinical Investigation  
MS in Clinical Investigation

## Class Meeting Information:
7/5/2017-7/31/2017  |  Tuesdays & Thursdays  |  9am-3pm  |  AS7-2072

## Additional notes:
The first Tuesday is the 4th of July so we are going to have that class on Wednesday the 5th instead.

So, only the first week class would be on Wednesday and Thursday and then it will resume to every Tuesday and Thursday for the month of July.

## Required Textbooks:


## Recommended Textbooks:
| **Course Description** | **Course Coordinator:** Lewis, B  
**email:** brian.lewis@umassmed.edu  
**Phone:** 64325  
**Location:** LRB 521 |
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<td>This intense 3-week course will expose students to a variety of topics related to cellular metabolism. The course will cover material ranging from foundational principles to current leading-edge research. The principles and mechanisms regulating metabolism will be explored from multiple perspectives, including biochemistry, biophysics, genetics, molecular biology and cell biology.</td>
<td><strong>Course Coordinator 2:</strong> Walker, A</td>
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<td><strong>Prerequisites:</strong> None</td>
<td><strong>Credits:</strong> 2</td>
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<td><strong>Grading:</strong> Letter</td>
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| **Associated Programs:** Pathway to Graduate Study  
Interdisciplinary Graduate Program  
Translational Science | **Class Meeting Information:** 7/17/2017-8/4/2107  
Monday thru Friday  |  
9am-11am  |  
SWE S7-402 |
| **Additional notes:** Required Textbooks: | **Recommended Textbooks:** |