

## Liverpool John Moores University

Title: Project and Research Methods  
Status: Definitive  
Code: **6010CHACAP** (117495)  
Version Start Date: 01-08-2011

Owning School/Faculty: Pharmacy & Biomolecular Sciences  
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	Leader
Gillian Hutcheon	Y

**Academic Level:** FHEQ6  
**Credit Value:** 24.00  
**Total Delivered Hours:** 165.00  
**Total Learning Hours:** 240  
**Private Study:** 75

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	10.000
Online	1.000
Practical	130.000
Seminar	4.000
Tutorial	2.000
Workshop	18.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	Project		70.0	
Presentation	Oral		10.0	
Practice	Research		20.0	

### Aims

*To equip the student with the practical and transferable skills necessary to investigate and present a piece of research in the chemical or pharmaceutical sciences.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Locate, evaluate and discuss current scientific literature.
- 2 Prepare a safety assessment in agreement with COSHH regulations.
- 3 Apply statistical packages, or other methodology to experimental data.
- 4 Demonstrate initiative and innovation in tackling a research project.
- 5 Discuss critically the strengths and weaknesses of appropriate methodology.
- 6 Critically discuss data and results obtained during the investigation, and propose future developments.
- 7 Write a scientific report of the investigation in a logical and integrated form using relevant word processing, graphics and chemical structure packages.
- 8 Demonstrate proficiency in the production and presentation of a seminar of the research undertaken.

## Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Project Report	1	3	4	5	6	7
Oral presentation	1	6	8			
Research methods	1	2	3	4	8	

## Outline Syllabus

- *The following areas will be explored via formally scheduled lectures and workshops; Information resources, literature review, COSHH assessments, statistical methods, oral presentation and report writing.*
- *Appropriate topics for individual research projects within the chemical and pharmaceutical sciences will be provided. These projects will normally be laboratory based but in exceptional circumstances may be computer or library-based.*

## Learning Activities

Lectures and workshops on the transferable skills required to carry out and record a piece of scientific research.

Practical laboratory sessions

Report writing

Oral presentations

## References

<b>Course Material</b>	Book
<b>Author</b>	Zubrick, James W.
<b>Publishing Year</b>	2007
<b>Title</b>	The organic chem lab survival manual : a student's guide
<b>Subtitle</b>	
<b>Edition</b>	7th
<b>Publisher</b>	John Wiley
<b>ISBN</b>	9780470129326

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### Notes

This is a new 24 credit project and research methods module that has been adapted from the current 36 credit PHCCH3099 project module as part of the new ACAPS programme. The syllabus and learning outcomes are comparable to those of the existing module although changes have been made to some aspects of the delivery and assessment to take into account the reduction in credits awarded.