De Montfort University

Course Template

1. Basic information

- Course Name: Pharmaceutical and Cosmetic Science
- Course Code: SP102A
- Level (UG, PG): Undergraduate
- Academic Period: 2015
- Faculty: HLS - Faculty of Health & Life Sciences
- Department: School of Pharmacy
- PMB PHAR
- Offered at: DM - DMU Leicester
- Type (single, joint.): SI
- Highest Award : Bachelor of Science (Honours)
- All possible exit awards : Bachelor of Science; Certificate of Higher Education; Diploma of Higher Education; Institutional Undergraduate Credit
- Award notes :

Professional Body Recognition

- Accreditation by Professional/Statutory body:

No

- Exemption by Professional/Statutory body:

No

- Details

- Modes of attendance: Main MOA: Full-Time
  Other MOA:
- Mode Notes:

- Course leader: David Armitage

2. Entry Requirements and Profile

UCAS Points
A minimum of 280 points
GCSE

- At least 5 GCSEs at grade C or above including Maths and English Language. Plus one of the following:

Alevels

- Normally 280 UCAS Points including A Level Chemistry at Grade B, with one other science subject or equivalent

BTEC

- BTEC National Diploma - Science BTEC with Distinction/Merit/Merit. Must meet Science requirement. If doing Applied Science need to have an A2 Chemistry
- BTEC National Certificate - Only in combination with other accepted qualifications. Must meet chemistry requirement. Taken Applied Science, you will need to have an A2 Chemistry
- BTEC National Award - Only in combination with other accepted qualifications. Must meet chemistry requirement. Taken Applied Science, you will need to have an A2 Chemistry
- BTEC Extended Diploma (3 A2s): Science BTEC with Distinction/Merit/Merit. Must meet chemistry requirement. Taken Applied Science, you will need to have an A2 Chemistry
- BTEC Diploma (2 A2s): Science BTEC Distinction* Distinction*. Must meet chemistry requirement. Taken Applied Science, you will need to have an A2

Chemistry

- BTEC 90 credit Diploma: Only in combination with other accepted qualifications. Must meet chemistry requirement. Taken Applied Science, you will need to have an A2 Chemistry
- BTEC Subsidiary Diploma (1 A2): Only in combination with other accepted qualifications. Must meet chemistry requirement. Taken Applied Science, you will need to have an A2 Chemistry
- BTEC certificate (1 A1): Only in combination with other accepted qualifications. Must meet chemistry requirement. Taken Applied Science, you will need to have an A2 Chemistry

Interview required: No
Access course
Pass in Access to Science. English and Maths GCSE equivalency required, 12 level 2 credits in each subject.

International students:
If English is not your first language, we require an English language level of IELTS 6.5 or equivalent.

Personal Statement selection criteria

- Clear communication skills, including good grammar and spelling
- Information relevant to the course applied for
- Interest in the course demonstrated with explanation and evidence
- If relevant for the course - work and life experience

3. Course Description

Characteristics and Aims

Pharmaceutical & Cosmetic Science is a highly vocational subject, intended to produce graduates who are skilled in the development and manufacture of pharmaceutical, cosmetic or related products, and have a firm grounding in related disciplines such as analytical chemistry and quality assurance. The knowledge, skills and critical abilities are built up through the "hands-on" practical content linked to the theory, using a variety of learning strategies such as: formal lectures; tutorials; seminars and workshops; directed student-centred learning; and practical laboratory sessions. Our excellent laboratory resources are utilised to enable students to become proficient in a wide range of practical skills. The vocational nature of the subject is reinforced by a one year industrial placement in the pharmaceutical industry taken following successful completion of the second year. Although this is not compulsory, it is very highly recommended that students undertake a placement year. The subject is delivered by academic staff, many of whom have a background in relevant employment areas and/or membership of relevant professional bodies, augmented where possible by scientists from within industry. Strong industrial links are also maintained through the placement scheme and the research and consultancy activities of various members of academic staff which helps to improve the employability of our graduates.

Teaching, Learning and Assessment Strategies

The two principle methods used to help your learning are lectures and laboratory practicals.

LECTURES are used to provide the theoretical foundation for the programme. They often contain elements to encourage active student learning, such as short exercises or spot tests, and increasingly are supplemented with handouts and computer-aided presentation.
TUTORIALS reinforce the theoretical work by allowing you actively to engage with material through discussion in class and by completing various kinds of exercise.
SEMINARS and WORKSHOPS also encourage active learning by requiring a deeper look at individual subjects, and often involve the processing and interpretation of data and/or delivery of findings through oral or written presentations.

RESOURCE-BASED LEARNING plays a role in encouraging you to learn outside the traditional type of teaching session, and this is increasingly delivered through computers linked to the inter- or intranet. Other types of strategy, such as ROLE PLAY, are used where appropriate.
LABORATORY PRACTICALS are widely used to give you, at various times, the opportunity to:

- acquire relevant practical and manipulative skills;
- engage in problem-solving;
- retrieve and use information from a variety of sources;
- record, analyse and critically evaluate data;
- develop your skills in scientific report writing and data presentation;
- communicate your findings to others, both in writing and orally;
- work in teams;
- plan your own work and take responsibility for its successful and timely completion;
- apply theory to practical problems.

ASSESSMENT of each module is by a mixture of coursework and written examination. The usual weighting is 30% coursework : 70 % exam, although this may differ for a few modules where there is a higher coursework component. The written examinations are designed to test students' understanding of the theory, and their ability to apply or evaluate it. Coursework is largely intended for students to apply their learning in a practical context, for them to learn and develop practical skills, or for them to engage in problem-solving exercises.
INDUSTRIAL PLACEMENT is a very important part of student learning and development. It occurs between the second and final year and is highly recommended, though not compulsory. The placement allows students to apply their academic learning within a real industrial or commercial context; further develop key skills and learn new techniques. Students on placement often have considerable responsibilities, depending on their skills and character.

4. Outcomes

Generic outcome headings	**What a student should know and be able to do upon completion of the course**
• **Knowledge & understanding**	Students should have the knowledge and understanding expected of a graduate of a degree or an honours degree course in the development, production, evaluation and regulation of pharmaceutical and cosmetic products, and the ability to apply this understanding.
• **Cognitive skills**	Students should be able to: • work with a high degree of independence; • evaluate and use efficiently appropriate materials, apparatus or equipment; • demonstrate a high level of competence in identifying problems, and making decisions and developing strategies for their solution (in a broad range of contexts); • gather information from a variety of sources and critically review it; • generate, analyse and evaluate their own data; • use their data to develop fully justified conclusions; • organise and manage their own work, and that of others if working as part of a team.
• **Subject specific skills**	A range of manipulative and investigative skills will be developed in the laboratory

	practicals. In addition the following skills will be developed: • the small-scale preparation of pharmaceutical and cosmetic products from established formulae; • the application of various analytical techniques to the evaluation of pharmaceutical or cosmetic producs; • the formulation, production and evaluation of solid dosage forms; • the evaluation of antimicrobial and preservative agents, and the control of microbial contamination; • an understanding of relevant regulatory and quality guidelines, with the ability to apply them appropriately.
• **Key Skills**	Students should be able to: • analyse, interpret, apply and communicate technical information within the area of pharmaceutical science; • understand and be able to apply properly the mathematical and statistical procedures needed in cosmetic development; • retrieve information from a variety of sources; • demonstrate initiative and critical ability; • manage their own work effectively when working individually or as part of a team; • demonstrate advanced problem solving abilities.

5. Structure and Regulations

Relationship Details

Module	Credits	Level	Take/Pass		Semester	Locations
PHCO1301	**30.00**	**1**	**Must Take**		**Y**	**DM**
PHCO1302	**30.00**	**1**	**Must Take**		**Y**	**DM**
PHCO1303	**15.00**	**1**	**Must Take**		**Y**	**DM**
PHCO1304	**15.00**	**1**	**Must Take**		**Y**	**DM**
PHCO1312	**15.00**	**1**	**Must Take**		**Y**	**DM**
PHCO1313	**15.00**	**1**	**Must Take**		**Y**	**DM**
PHCO2303	**15.00**	**2**	**Must Take**		**Y**	**DM**
PHCO2304	**15.00**	**2**	**Must Take**		**Y**	**DM**
PHCO2307	**15.00**	**2**	**Must Take**		**Y**	**DM**
PHCO2308	**15.00**	**2**	**Must Take**		**Y**	**DM**
PHCO2311	**30.00**	**2**	**Must Take**		**Y**	**DM**
PHCO2312	**30.00**	**2**	**Must Take**		**Y**	**DM**
SANH2802	**0.00**	**2**	**Neither**		**Y**	**DM**
PHCO3302	**15.00**	**3**	**Must Take**		**Y**	**DM**
PHCO3304	**30.00**	**3**	**Both**	**Y**	**DM**	
PHCO3308	**15.00**	**3**	**Must Take**		**Y**	**DM**
PHCO3309	**15.00**	**3**	**Must Take**		**Y**	**DM**
PHCO3311	**30.00**	**3**	**Must Take**		**Y**	**DM**
PHCO3312	**15.00**	**3**	**Neither**		**Y**	**DM**
PHCO3313	**15.00**	**3**	**Neither**		**Y**	**DM**
PHCO3314	**15.00**	**3**	**Neither**		**Y**	**DM**
PHCO3315	**15.00**	**3**	**Neither**		**Y**	**DM**
PHCO3316	**15.00**	**3**	**Neither**		**Y**	**DM**

Structure

Structure notes

Course Specific Differences or Regulations

Numbers at sites, including partner institutions

Relevant QAA Subject Benchmarking statement(s)

6. Quality Assurance Information

QA of Workbased Learning

N/A

Liaison with Collaborative Partners

N/A

Procedures for Maintaining Standards

Standard DMU procedures.

Course Handbook Descriptor