

Department of Chemical Engineering and Biotechnology

This document contains Lecture List information about

Chemical Engineering Tripos Part I
Chemical Engineering Tripos Part IIA
Chemical Engineering Tripos Part IIB

CHEMICAL ENGINEERING TRIPOS PART I, 2016-17

Departmental Contact: Dr P.J. Barrie (pjb10@cam.ac.uk)

All lectures take place in the Department of Chemical Engineering and Biotechnology: new building on West Cambridge site

An introduction to the course will be given in the Department on Wednesday 5 October 2016 at 10.45 am.

A detailed timetable will be available in the Department and at <http://www.ceb.cam.ac.uk/undergraduates/current-students>

	Michaelmas 2016	Lent 2017	Easter 2017
LECTURES	DRS B. HALLMARK and J.A. ZEITLER Introduction to Chemical Engineering (16 lectures) DR M.E. WILLIAMSON Fluid Mechanics (16 lectures) DR P.J. BARRIE Process Calculations (24 lectures) DR C. D'AGOSTINO Homogeneous Reactors (8 lectures) DR A.C. FISHER and DR A.J. SEDERMAN Mechanical Engineering ¹ (18 lectures) DRS M.D. MANTLE and A.C. FISHER Chemistry ² (18 lectures)	PROF D.I. WILSON Heat and Mass Transfer Fundamentals (18 lectures) DR S.L. ROUGH Heat and Mass Transfer Operations (8 lectures) PROF J.S. DENNIS Separations (16 lectures) DRS G.S. KAMINSKI and G. CHRISTIE Biotechnology (16 lectures) DRS E.J. REES and V.S. VASSILIADIS Engineering Maths (16 lectures) PROF D.I. WILSON Stress Analysis and Pressure Vessels (8 lectures)	DR V.S. VASSILIADIS Engineering Maths (8 lectures) DR S.L. ROUGH Mechanical Engineering ¹ (8 lectures) PROF C.F. KAMINSKI Chemistry ² (8 lectures)
CLASSWORK	DR P.J. BARRIE Exercises DR V.S. VASSILIADIS Computing Skills	DR P.J. BARRIE Exercises DR B. HALLMARK Computing Skills	DR E.J. REES Exercises DR B. HALLMARK Professional Skills
PRACTICALS	DRS P.J. BARRIE and S. BUTLER Teaching Laboratory DR A.C. FISHER Physical Chemistry Laboratory ² DR K. YUNUS Engineering Drawing ¹	DRS P.J. BARRIE and S. BUTLER Teaching Laboratory	

¹ Lectures for students who have previously taken Natural Sciences Tripos Part IA.

² Lectures for students who have previously taken Engineering Tripos Part IA.

All other lectures offered are for all students.

CHEMICAL ENGINEERING TRIPOS PART IIA, 2016-17

Departmental Contact: Dr P.J. Barrie (pjb10@cam.ac.uk)

All lectures take place in the Department of Chemical Engineering and Biotechnology: new building on West Cambridge site

An introduction to the course will be given in the Department on Thursday 6 October 2016 at 9 am.

A detailed timetable will be available in the Department and at <http://www.ceb.cam.ac.uk/undergraduates/current-students>

	Michaelmas 2016	Lent 2017	Easter 2017
LECTURES	PROF G.D. MOGGRIDGE Equilibrium Thermodynamics (16 lectures) DR L. TORRENTE-MURCIANO Separations (16 lectures) DR A. ZACCONE Process Dynamics and Control (16 lectures) DR G. CHRISTIE Bioprocessing (12 lectures) DRS E.J. REES and J.A. ZEITLER Corrosion and Materials (16 lectures) DR P.J. BARRIE Statistics (12 lectures) DR M.E. WILLIAMSON Process Synthesis (8 lectures) DR L. FRUK Engineering Ethics (3 lectures)	DR S.S.S. CARDOSO Fluid Mechanics (24 lectures) PROF A.A. LAPKIN Heterogeneous Reactors (16 lectures) DR C. D'AGOSTINO Safety, Health and the Environment (12 lectures) DR A. ZACCONE Partial Differential Equations (8 lectures) DR S.L. ROUGH Particle Processing (8 lectures) DR E.J. REES Radiation (8 lectures) DR B. HALLMARK Process Design (12 lectures)	
CLASSWORK	DR B. HALLMARK Exercises	DR B. HALLMARK Exercises	DR B. HALLMARK Design Project

CHEMICAL ENGINEERING TRIPOS PART IIB, 2016-17

Departmental Contact: Dr P.J. Barrie (pjb10@cam.ac.uk)

Unless otherwise indicated, all lectures take place in the Department of Chemical Engineering and Biotechnology: new building on West Cambridge site. Lectures on *Entrepreneurship* take place in a venue to be announced. The courses on *Foreign Language* take place in *the Department of Engineering*.

An introduction to the course will be given in the Department on Wednesday 5 October 2016 at 9.20 am.

A detailed timetable will be available in the Department and at <http://www.ceb.cam.ac.uk/undergraduates/current-students>

	Michaelmas 2016	Lent 2017	Easter 2017	
LECTURES	PROF A.A. LAPKIN Sustainability in Chemical Engineering (16 lectures) DRS G.D. MOGGRIDGE and G. CHRISTIE Chemical Product Design (16 lectures) PROF J.S. DENNIS Advanced Transport Processes (16 lectures) DR B. HALLMARK Rheology and Processing (16 lectures) DR V.S. VASSILIADIS Optimisation (16 lectures) DR S.S.S. CARDOSO Fluid Mechanics and the Environment (16 lectures) PROF D.I. WILSON Interface Engineering (16 lectures) DR M.E. WILLIAMSON Computational Fluid Dynamics (8 lectures + tutorials)	DRS P.J. BARRIE and C. D'AGOSTINO Energy Technology (16 lectures) DR J.A. ZEITLER Pharmaceutical Engineering (16 lectures) PROF C.F. KAMINSKI Optical Microscopy (16 lectures) PROF S. BAHN Healthcare Biotechnology (16 lectures) DR L. FRUK Bionanotechnology (16 lectures) Dr G.S. KAMINSKI Biophysics (16 lectures) PROF A.A. SESHIA and PROF E.A.H. HALL Biosensors (14 lectures) DR S. BARAKAT Entrepreneurship (16 lectures)		
CLASSWORK	MR D. TUAL and OTHERS Foreign Language	MR D. TUAL and OTHERS Foreign Language		
PRACTICALS	Research Project	Research Project	Research Project	