# Resources for Undergraduate modules (2017/18)

* **CE101-4-FY-CO: Professional Development**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce101)  
Contact: Prof Klaus McDonald-Maier (email: kdm)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE101&level=4&period=FY&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce101/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce101) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce101) to see if there are any recordings for this module

* **CE141-4-FY-CO: Mathematics for Computing**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce141)  
Contact: Dr Nigel Newton (email: njn)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE141&level=4&period=FY&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce141/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce141) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce141) to see if there are any recordings for this module

* **CE142-4-FY-CO: Mathematics for Electronics and Telecommunications**

Materials location: from <http://orb.essex.ac.uk/ce/ce142/>  
Contact: Dr Alexei Vernitski (email: asvern)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE142&level=4&period=FY&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce142/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce142) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce142) to see if there are any recordings for this module

* **CE151-4-AU-CO: Introduction to Programming**

Materials location: from <http://orb.essex.ac.uk/ce/ce151/>  
Contact: Dr Mike Sanderson (email: sands)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE151&level=4&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce151/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce151) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce151) to see if there are any recordings for this module

* **CE151-4-AU-NW: Introduction to Programming**

Materials location: from <http://orb.essex.ac.uk/ce/ce151/>  
Contact: Dr Mike Sanderson (email: sands)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE151&level=4&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce151/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce151) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce151) to see if there are any recordings for this module

* **CE152-4-SP-CO: Object-Oriented Programming**

Materials location: from <http://orb.essex.ac.uk/ce/ce152/>  
Contact: Dr Norbert Voelker (email: norbert)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE152&level=4&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce152/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce152) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce152) to see if there are any recordings for this module

* **CE153-4-AU-CO: Introduction to Databases**

Materials location: from <http://orb.essex.ac.uk/ce/ce153/>  
Contact: Dr Sam Steel (email: sam)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE153&level=4&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce153/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce153) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce153) to see if there are any recordings for this module

* **CE154-4-SP-CO: Web Development**

Materials location: from <http://orb.essex.ac.uk/ce/ce154/>  
Contact: Richard Sutcliffe (email: rsutcl)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE154&level=4&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce154/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce154) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce154) to see if there are any recordings for this module

* **CE155-4-SP-CO: Network Fundamentals**

Materials location: from <http://orb.essex.ac.uk/ce/ce155/>  
Contact: Dr John Woods (email: woodjt)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE155&level=4&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce155/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce155) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce155) to see if there are any recordings for this module

* **CE161-4-AU-CO: Fundamentals of Digital Systems**

Materials location: from <http://orb.essex.ac.uk/ce/ce161/>  
Contact: Dr Francisco Sepulveda (email: fsepulv)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE161&level=4&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce161/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce161) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce161) to see if there are any recordings for this module

* **CE162-4-SP-CO: Digital Electronic Systems**

Materials location: from <http://orb.essex.ac.uk/ce/ce162/>  
Contact: Dr Nikos Thomos (email: nthomos)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE162&level=4&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce162/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce162) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce162) to see if there are any recordings for this module

* **CE163-4-AU-NW: Foundations of Electronics and Physics I**

Materials location: from <http://orb.essex.ac.uk/ce/ce163/>  
Contact: Dr David Bebbington (email: david)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE163&level=4&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce163/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce163) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce163) to see if there are any recordings for this module

* **CE163-4-AU-CO: Foundations of Electronics I**

Materials location: from <http://orb.essex.ac.uk/ce/ce163/>  
Contact: Dr David Bebbington (email: david)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE163&level=4&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce163/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce163) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce163) to see if there are any recordings for this module

* **CE164-4-SP-CO: Foundations of Electronics II**

Materials location: from <http://orb.essex.ac.uk/ce/ce164/>  
Contact: Dr Francisco Sepulveda (email: fsepulv)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE164&level=4&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce164/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce164) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce164) to see if there are any recordings for this module

* **CE164-4-SP-NW: Foundations of Electronics II**

Materials location: from <http://orb.essex.ac.uk/ce/ce164/>  
Contact: Dr Francisco Sepulveda (email: fsepulv)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE164&level=4&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce164/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce164) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce164) to see if there are any recordings for this module

* **CE201-5-FY-CO: Group Project and Industrial Practice**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce201)  
Contact: Dr Michael Fairbank (email: m.fairbank)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE201&level=5&period=FY&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce201/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce201) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce201) to see if there are any recordings for this module

* **CE201-5-FY-NW: Group Project and Industrial Practice**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce201)  
Contact: Dr Michael Fairbank (email: m.fairbank)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE201&level=5&period=FY&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce201/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce201) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce201) to see if there are any recordings for this module

* **CE202-5-AU-CO: Software Engineering**

Materials location: from <http://orb.essex.ac.uk/ce/ce202/>  
Contact: Dr Michael Gardner (email: mgardner)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE202&level=5&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce202/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce202) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce202) to see if there are any recordings for this module

* **CE203-5-AU-CO: Application Programming**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce203)  
Contact: Dr Ian Daly (email: id16214)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE203&level=5&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce203/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce203) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce203) to see if there are any recordings for this module

* **CE204-5-SP-CO: Data Structures and Algorithms**

Materials location: from <http://orb.essex.ac.uk/ce/ce204/>  
Contact: Dr Mike Sanderson (email: sands)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE204&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce204/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce204) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce204) to see if there are any recordings for this module

* **CE205-5-AU-CO: Databases and Information Retrieval**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce205)  
Contact: Dr Alba Garcia (email: alba.garcia)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE205&level=5&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce205/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce205) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce205) to see if there are any recordings for this module

* **CE206-5-AU-CO: Human Computer Interfaces and Visualisation**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce206)  
Contact: Jon Chamberlain (email: jchamb)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE206&level=5&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce206/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce206) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce206) to see if there are any recordings for this module

* **CE212-5-SP-CO: Web Application Programming**

Materials location: from <http://orb.essex.ac.uk/ce/ce212/>  
Contact: Dr Mike Sanderson (email: sands)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE212&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce212/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce212) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce212) to see if there are any recordings for this module

* **CE213-5-AU-CO: Artificial Intelligence**

Materials location: from <http://orb.essex.ac.uk/ce/ce213/>  
Contact: Prof John Gan (email: jqgan)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE213&level=5&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce213/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce213) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce213) to see if there are any recordings for this module

* **CE215-5-SP-CO: Robotics**

Materials location: from <http://orb.essex.ac.uk/ce/ce215/>  
Contact: Dr Dongbing Gu (email: dgu)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE215&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce215/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce215) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce215) to see if there are any recordings for this module

* **CE217-5-SP-CO: Computer Game Design**

Materials location: from <http://orb.essex.ac.uk/ce/ce217/>  
Contact: Professor Richard Bartle (email: rabartle)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE217&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce217/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce217) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce217) to see if there are any recordings for this module

* **CE218-5-SP-CO: Computer Game Programming**

Materials location: from <http://orb.essex.ac.uk/ce/ce218/>  
Contact: Dr Dimitri Ognibene (email: dimitri.ognibene)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE218&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce218/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce218) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce218) to see if there are any recordings for this module

* **CE219-5-SP-CO: ICT Systems Integration and Management**

Materials location: from <http://orb.essex.ac.uk/ce/ce219/>  
Contact: Dr Giovanni Stracquadanio (email: gs16517)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE219&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce219/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce219) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce219) to see if there are any recordings for this module

* **CE221-5-AU-CO: C++ Programming**

Materials location: from <http://orb.essex.ac.uk/ce/ce221/>  
Contact: Dr Mike Sanderson (email: sands)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE221&level=5&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce221/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce221) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce221) to see if there are any recordings for this module

* **CE222-5-SP-CO: Operating Systems**

Materials location: from <http://orb.essex.ac.uk/ce/ce222/>  
Contact: Dr Sam Steel (email: sam)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE222&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce222/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce222) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce222) to see if there are any recordings for this module

* **CE231-5-FY-CO: Computer and Data Networks**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce231)  
Contact: Dr Martin Reed (email: mjreed)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE231&level=5&period=FY&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce231/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce231) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce231) to see if there are any recordings for this module

* **CE235-5-SP-CO: Computer Security**

Materials location: from <http://orb.essex.ac.uk/ce/ce235/>  
Contact: Dr Leila Musavian (email: leila.musavian)  
Dr Richard Sutcliffe (email: rsutcl)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE235&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce235/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce235) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce235) to see if there are any recordings for this module

* **CE235-5-SP-NW: Computer Security**

Materials location: from <http://orb.essex.ac.uk/ce/ce235/>  
Contact: Dr Leila Musavian (email: leila.musavian)  
Dr Richard Sutcliffe (email: rsutcl)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE235&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce235/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce235) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce235) to see if there are any recordings for this module

* **CE243-5-AU-CO: C Programming and Embedded Systems**

Materials location: from <http://orb.essex.ac.uk/ce/ce243/>  
Contact: Professor Huosheng Hu (email: hhu)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE243&level=5&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce243/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce243) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce243) to see if there are any recordings for this module

* **CE262-5-AU-CO: Engineering Mathematics**

Materials location: from <http://orb.essex.ac.uk/ce/ce262/>  
Contact: Dr Manoj Thakur (email: mpthak)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE262&level=5&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce262/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce262) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce262) to see if there are any recordings for this module

* **CE263-5-SP-CO: Analogue Circuit Design**

Materials location: from <http://orb.essex.ac.uk/ce/ce263/>  
Contact: Prof Stuart Walker (email: stuwal)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE263&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce263/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce263) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce263) to see if there are any recordings for this module

* **CE264-5-AU-CO: Digital Systems Design**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce264)  
Contact: Dr Steve Sangwine (email: sjs)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE264&level=5&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce264/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce264) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce264) to see if there are any recordings for this module

* **CE264-5-AU-NW: Digital Systems Design**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce264)  
Contact: Dr Steve Sangwine (email: sjs)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE264&level=5&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce264/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce264) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce264) to see if there are any recordings for this module

* **CE265-5-SP-CO: Telecommunication Principles**

Materials location: from <http://orb.essex.ac.uk/ce/ce265/>  
Contact: Prof Stuart Walker (email: stuwal)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE265&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce265/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce265) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce265) to see if there are any recordings for this module

* **CE265-5-SP-NW: Telecommunication Principles**

Materials location: from <http://orb.essex.ac.uk/ce/ce265/>  
Contact: Prof Stuart Walker (email: stuwal)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE265&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce265/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce265) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce265) to see if there are any recordings for this module

* **CE266-5-SP-CO: Engineering Electromagnetics**

Materials location: from <http://orb.essex.ac.uk/ce/ce266/>  
Contact: Dr David Bebbington (email: david)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE266&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce266/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce266) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce266) to see if there are any recordings for this module

* **CE266-5-SP-NW: Engineering Electromagnetics**

Materials location: from <http://orb.essex.ac.uk/ce/ce266/>  
Contact: Dr David Bebbington (email: david)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE266&level=5&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce266/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce266) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce266) to see if there are any recordings for this module

* **CE300-6-FY-AW: Placement Year**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce300)  
Contact: Prof Anthony Vickers (email: vicka)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE300&level=6&period=FY&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce300/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce300) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce300) to see if there are any recordings for this module

* **CE300-6-FY-CO: Placement Year**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce300)  
Contact: Prof Anthony Vickers (email: vicka)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE300&level=6&period=FY&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce300/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce300) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce300) to see if there are any recordings for this module

* **CE301-6-FY-CO: Individual Project**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce301)  
Contact: Dr Anthony Vickers (email: vicka)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE301&level=6&period=FY&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce301/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce301) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce301) to see if there are any recordings for this module

* **CE303-6-AU-CO: Advanced Programming**

Materials location: from <http://orb.essex.ac.uk/ce/ce303/>  
Contact: Dr Norbert Voelker (email: norbert)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE303&level=6&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce303/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce303) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce303) to see if there are any recordings for this module

* **CE305-6-SP-CO: Languages and Compilers**

Materials location: from <http://orb.essex.ac.uk/ce/ce305/>  
Contact: Dr Chris Fox (email: foxcj)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE305&level=6&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce305/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce305) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce305) to see if there are any recordings for this module

* **CE306-6-SP-CO: Information Retrieval**

Materials location: from <http://orb.essex.ac.uk/ce/ce306/>  
Contact: Prof Udo Kruschwitz (email: udo)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE306&level=6&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce306/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce306) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce306) to see if there are any recordings for this module

* **CE314-6-AU-CO: Natural Language Engineering**

Materials location: from <http://orb.essex.ac.uk/ce/ce314/>  
Contact: Dr Aline Villavicencio (email: avill)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE314&level=6&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce314/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce314) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce314) to see if there are any recordings for this module

* **CE315-6-SP-CO: Mobile Robotics**

Materials location: from <http://orb.essex.ac.uk/ce/ce315/>  
Contact: Prof Huosheng Hu (email: hhu)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE315&level=6&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce315/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce315) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce315) to see if there are any recordings for this module

* **CE316-6-AU-CO: Computer Vision**

Materials location: from <http://orb.essex.ac.uk/ce/ce316/>  
Contact: Dr Adrian Clark (email: alien)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE316&level=6&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce316/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce316) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce316) to see if there are any recordings for this module

* **CE317-6-SP-CO: Virtual Worlds**

Materials location: from <http://orb.essex.ac.uk/ce/ce317/>  
Contact: Dr Richard Bartle (email: rabartle)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE317&level=6&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce317/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce317) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce317) to see if there are any recordings for this module

* **CE318-6-AU-CO: High-Level Games Development**

Materials location: from <http://orb.essex.ac.uk/ce/ce318/>  
Contact: Dr Diego Perez (email: dperez)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE318&level=6&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce318/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce318) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce318) to see if there are any recordings for this module

* **CE320-6-AU-CO: Large Scale Software Systems and Extreme Programming**

Materials location: from <http://orb.essex.ac.uk/ce/ce320/>  
Contact: Prof Riccardo Poli (email: rpoli)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE320&level=6&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce320/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce320) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce320) to see if there are any recordings for this module

* **CE321-6-AU-CO: Network Engineering**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce321)  
Contact: Dr Martin Reed (email: mjreed)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE321&level=6&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce321/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce321) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce321) to see if there are any recordings for this module

* **CE323-6-SP-CO: Advanced Embedded Systems Design**

Materials location: from <http://orb.essex.ac.uk/ce/ce323/>  
Contact: Prof Dongbing Gu (email: dgu)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE323&level=6&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce323/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce323) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce323) to see if there are any recordings for this module

* **CE324-6-SP-CO: Network Security**

Materials location: from <http://orb.essex.ac.uk/ce/ce324/>  
Contact: Dr Martin Reed (email: mjreed)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE324&level=6&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce324/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce324) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce324) to see if there are any recordings for this module

* **CE331-6-AU-CO: Signal Processing**

Materials location: from <http://orb.essex.ac.uk/ce/ce331/>  
Contact: Prof Dariush Mirshekar (email: dariush)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE331&level=6&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce331/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce331) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce331) to see if there are any recordings for this module

* **CE334-6-SP-CO: Telecommunication Networks and Systems**

Materials location: from <http://orb.essex.ac.uk/ce/ce334/>  
Contact: Dr Nick Zakhleniuk (email: naz)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE334&level=6&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce334/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce334) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce334) to see if there are any recordings for this module

* **CE335-6-AU-CO: Digital Signal Processing**

Materials location: from <http://orb.essex.ac.uk/ce/ce335/>  
Contact: Dr Nikos Thomos (email: nthomos)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE335&level=6&period=AU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce335/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce335) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce335) to see if there are any recordings for this module

* **CE339-6-SP-CO: High Level Digital Design**

Materials location: from [Moodle](https://moodle.essex.ac.uk/course/view.php?name=ce339)  
Contact: Dr Luca Citi (email: lciti)  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE339&level=6&period=SP&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce339/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce339) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce339) to see if there are any recordings for this module

* **CE360-6-SU-CO: Internship Portfolio**

Materials location: not available  
Contact: not available  
Module outline: from the [module directory](http://www.essex.ac.uk/modules/default.aspx?coursecode=CE360&level=6&period=SU&yearofcourse=17)  
Online reading list: in [Talis Aspire](https://essex.rl.talis.com/modules/ce360/lists/2017-18.html)  
Past exam papers: from the [past exam papers](http://orb.essex.ac.uk/secure/exampapers.aspx?course=ce360) archive  
Lecture recordings: please check [Listen Again](https://listenagain.essex.ac.uk/secure/View.aspx?m=ce360) to see if there are any recordings for this module