DIVISION OF COMPUTING, ENGINEERING AND MATHEMATICAL SCIENCES

SCHOOL OF ENGINEERING

School Website: www.kent.ac.uk/engineering

Please refer to the online Module Catalogue for full details of all modules:
www.kent.ac.uk/courses/modules

Note: It is ultimately your responsibility to ensure that you are registered for the correct modules for your course.

Please select a link below to view the Stage 2+ requirements for your course:

- Biomedical Engineering: BENG
- Biomedical Engineering Including a Foundation Year: BENG
- Biomedical Engineering with a Year in Industry: BENG
- Digital Arts: BA
- Digital Design: BSc
- Digital Design with a Year Abroad: BSc
- Digital Design with a Year in Industry: BSc
- Electronic & Computer Systems (Top-Up degree)
- Electronic and Computer Engineering: BENG
- Electronic and Computer Engineering: MENG
- Electronic and Computer Engineering with a Year in Industry: BENG
- Electronic and Computer Engineering with a Year in Industry: MENG
- Mechanical Engineering: BENG
- Mechanical Engineering including a Foundation Year: BENG
- Mechanical Engineering including a Foundation Year and a Year in Industry: BENG
- Mechanical Engineering with a Year in Industry: BENG

The information contained herein is correct at the time of publication. Please note, however, that if a module recruits fewer than 8 students it is possible that it will not run. In this event, you will be contacted and asked to select an alternative module.

BIOMEDICAL ENGINEERING (VERSION 2)   UBME0001X2BE-F
BIOMEDICAL ENGINEERING WITH A YEAR IN INDUSTRY (VERSION 2)   UBME0001P2BE-F
BIOMEDICAL ENGINEERING INCLUDING A FOUNDATION YEAR (VERSION 2)
Single Honours   UBME0001F1BE-F

STAGE 2 – 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
BIOS5130	Human Anatomy and Physiology II	15	Autumn	5
EENG5150	Physiological Measurement	15	Autumn & Spring	5
EENG5160	Biomechanics	15	Autumn & Spring	5
EENG5170+	Control and Mechatronics	15	Autumn & Spring	5
EENG5190	Introduction to Fluid Dynamics	15	Spring	5
EENG5610 +	Image Analysis & Applications	15	Spring	5
EENG5620	Engineering Group Project	15	Autumn & Spring	5
EENG5770	Entrepreneurship and Professional Development	15	Autumn	5

+ In order to obtain credit for this module on IET accredited courses, the coursework mark and the exam mark must each be greater than or equal to 30% as well as achieving the pass mark for the module. This module will only be considered for compensation if the coursework mark and exam mark are each greater than 30%.

Students on a Year in Industry will also take the following non-contributory compulsory module. This can also be taken by students who are not on the Year in Industry version as an optional, non-contributory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
WMATH009	Engineering Industrial Practice Stage 2	0	Autumn & Spring	W

BIOMEDICAL ENGINEERING WITH A YEAR IN INDUSTRY (VERSION 2)   UBME0001P2BE-F

STAGE S – 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG7910*	Year in Industry (Industrial Assessment)	90	Year-long	5
EENG7920*	Year in Industry (Academic Assessment)	30	Year-long	5

*Failure to attain the learning outcomes in this module may not be compensated or condoned.

BIOMEDICAL ENGINEERING (VERSION 2)   **UBME0001X2BE-F**
BIOMEDICAL ENGINEERING WITH A YEAR IN INDUSTRY (VERSION 1)   **UBME0001P1BE-F**
BIOMEDICAL ENGINEERING WITH A YEAR IN INDUSTRY (VERSION 2)   **UBME0001P2BE-F**

Single Honours

STAGE 3 – 120 credits – up to 75 credits per term

You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG6000*	Project	45	Autumn & Spring	6
EENG6141	Biomaterials	15	Autumn & Spring	6
EENG6460	Robotics and Artificial Intelligence	15	Autumn	6
EENG6760 +	Digital Signal Processing and Control	15	Autumn & Spring	6
EENG6830	Reliability, Availability, Maintainability and Safety (RAMS)	15	Autumn & Spring	6

*Failure to attain the learning outcomes in this module may not be compensated or condoned.
+ In order to obtain credit for this module on IET accredited courses, the coursework mark and the exam mark must each be greater than or equal to 30% as well as achieving the pass mark for the module. This module will only be considered for compensation if the coursework mark and exam mark are each greater than 30%.

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG5220	Design & Manufacturing Technology	15	Spring	5
EENG6770	Electronics for Communications	15	Autumn & Spring	6
PHYS6330	Medical Physics	15	Spring	6

All students, whether they are on a Year in Industry course or not, can choose to take the following non-contributory optional module:

Optional module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
WEENG001	Engineering Industrial Practice Stage 3	0	Autumn & Spring	W

STAGE 3 – 120 credits

You must take the following compulsory modules (90 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
DIGM6360*	Final Year Project	60	Autumn & Spring	6
DIGM6410	Digital Visual Effects and Post Production	30	Autumn	6

*Failure to attain the learning outcomes in this module may not be compensated or condoned. Only one lecture occurs in autumn so all 60 credits should be assumed as being Spring. This allows for the 30 credit gap for optional module(s) to be made up in autumn.

PLUS 30 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
BUSN5870	Digital Marketing Strategy	15	Autumn	5
CMAT5080æ	Music and Sound for Film, Television and Media	15	Autumn	5
COMP6100	Video Games Development	15	Autumn	6
MSTU5001	Social Media and Participatory Culture	30	Autumn	5
SOCI7500	Popular Culture, Media and Society	15	Autumn	6

æ Please note this module is taught at Medway campus. Please take travel into consideration when selecting this module

All students, whether they are on a Year in Industry course or not, can choose to take the following non-contributory optional module:

Optional module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
WEENG001	Engineering Industrial Practice Stage 3	0	Autumn & Spring	W

DIGITAL DESIGN   **UDID0001X1BS-F**
DIGITAL DESIGN WITH A YEAR IN INDUSTRY   **UDID0001P1BS-F**
DIGITAL DESIGN WITH A YEAR ABROAD   **UDID0001A1BS-F**
Single Honours

STAGE 2 – 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
DIGM5090	Virtual Reality	15	Spring	5
DIGM5100	Online Design	15	Autumn	5
DIGM5110	Interactive Environments	15	Autumn	5
DIGM5320	3D Production	30	Autumn & Spring	5
DIGM5760	Second Year Project	30	Spring	5
EENG5770	Entrepreneurship and Professional Development	15	Autumn	5

Students on a Year in Industry will also take the following non-contributory compulsory module. This can also be taken by students who are not on the Year in Industry version as an optional, non-contributory module:

Optional module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
WMATH009	Engineering Industrial Practice Stage 2	0	Autumn & Spring	W

DIGITAL DESIGN WITH A YEAR IN INDUSTRY   UDID0001P1BS-F

STAGE S – 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG7910*	Year in Industry (Industrial Assessment)	90	Year-long	5
EENG7920*	Year in Industry (Academic Assessment)	30	Year-long	5

*Failure to attain the learning outcomes in this module may not be compensated or condoned

DIGITAL DESIGN WITH A YEAR ABROAD   UDID0001A1BS-F

STAGE A – 120 credits

You must take the following compulsory modules (120 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
DIGM7930*	Year Abroad	120	Year-long	5

*Failure to attain the learning outcomes in this module may not be compensated or condoned

DIGITAL DESIGN   **UDID0001X1BS-F**
DIGITAL DESIGN WITH A YEAR IN INDUSTRY   **UDID0001P1BS-F**
DIGITAL DESIGN WITH A YEAR ABROAD   **UDID0001A1BS-F**
Single Honours

STAGE 3 – 120 credits

You must take the following compulsory modules (90 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
DIGM6090	Mixed Realities	15	Autumn	6
DIGM6100	3D Simulation	15	Autumn	6
DIGM6110*	Final Year Project	45	Autumn & Spring	6
DIGM6430	Design Futures and Emerging Technology	15	Spring	6

*Failure to attain the learning outcomes in this module may not be compensated or condoned. Only one lecture occurs in autumn so all 45 credits should be assumed as being Spring. This allows for the 30 credit gap for optional module(s) to be made up in autumn.
PLUS 30 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
BUSN5870	Digital Marketing Strategy	15	Autumn	5
CMAT5080æ	Music and Sound for Film, Television and Media	15	Autumn	5
COMP6100	Video Games Development	15	Autumn	6
MSTU5001	Social Media and Participatory Culture	30	Autumn	5
MSTU5003	Fan Culture: Film, Comics and Games	30	Autumn	6
SOCI7500	Popular Culture, Media and Society	15	Autumn	6

æ Please note this module is taught at Medway campus. Please take travel into consideration when selecting this module

All students, whether they are on a Year in Industry course or not, can choose to take the following non-contributory optional module:

Optional module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
WEENG001	Engineering Industrial Practice Stage 3	0	Autumn & Spring	W

ELECTRONIC & COMPUTER SYSTEMS (TOP-UP DEGREE)   UECS0001X1BE-F
Single Honours

This top-up degree is not accredited by the Institute of Engineering and Technology (IET).

STAGE 3 – 120 credits

You must take the following compulsory modules (75 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG6000*	Project	45	Autumn & Spring	6
EENG6670	Embedded Computer Systems	15	Autumn & Spring	6
EENG6770	Electronics for Communications	15	Autumn & Spring	6

*Failure to attain the learning outcomes in this module may not be compensated or condoned.

PLUS 30 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG5610	Image Analysis and Applications	15	Spring	5
EENG6460	Robotics and Artificial Intelligence	15	Autumn	6
EENG6730	Digital System Design	15	Autumn & Spring	6
EENG6760	Digital Signal Processing and Control	15	Autumn & Spring	6

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG5770	Entrepreneurship and Professional Development	15	Autumn	5
EENG6830	Reliability, Availability, Maintainability & Safety (RAMS)	15	Autumn & Spring	6

ELECTRONIC AND COMPUTER ENGINEERING   **UEEX0001X1BE-F**
ELECTRONIC AND COMPUTER ENGINEERING   **UEEX0001X1ME-F**
ELECTRONIC AND COMPUTER ENGINEERING WITH A YEAR IN INDUSTRY
Single Honours   **UEEX0001P1BE-F**

STAGE 2 – 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG5170 +	Control and Mechatronics	15	Autumn & Spring	5
EENG5600 +	Microcomputer Engineering	15	Autumn & Spring	5
EENG5620	Engineering Group Project	15	Autumn & Spring	5
EENG5650 +	Instrumentation and Measurement Systems	15	Autumn	5
EENG5680 +	Digital Implementation	15	Autumn & Spring	5
EENG5700 +	Communications Principles	15	Spring	5
EENG5770	Entrepreneurship and Professional Development	15	Autumn	5
EENG5780	Systems Programming	15	Autumn & Spring	5

+ In order to obtain credit for this module on IET accredited courses, the coursework mark and the exam mark must each be greater than or equal to 30% as well as achieving the pass mark for the module. This module will only be considered for compensation if the coursework mark and exam mark are each greater than 30%.

Students on a Year in Industry will also take the following non-contributory compulsory module. This can also be taken by students who are not on the Year in Industry version as an optional, non-contributory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
WMATH009	Engineering Industrial Practice Stage 2	0	Autumn & Spring	W

ELECTRONIC AND COMPUTER ENGINEERING WITH A YEAR IN INDUSTRY
     UEEX0001P1BE-F
ELECTRONIC AND COMPUTER ENGINEERING WITH A YEAR IN INDUSTRY
     UEEX0001P1ME-F

STAGE S – 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG7910*	Year in Industry (Industrial Assessment)	90	Year-long	5
EENG7920*	Year in Industry (Academic Assessment)	30	Year-long	5

*Failure to attain the learning outcomes in this module may not be compensated or condoned.

ELECTRONIC AND COMPUTER ENGINEERING   **UEEX0001X1BE-F**
ELECTRONIC AND COMPUTER ENGINEERING   **UEEX0001X1ME-F**
ELECTRONIC AND COMPUTER ENGINEERING WITH A YEAR IN INDUSTRY
      UEEX0001P1BE-F
ELECTRONIC AND COMPUTER ENGINEERING WITH A YEAR IN INDUSTRY
Single Honours   **UEEX0001P1ME-F**

STAGE 3 – 120 credits
You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG6000*	Project	45	Autumn & Spring	6
EENG6670+	Embedded Computer Systems	15	Autumn & Spring	6
EENG6730+	Digital Systems Design	15	Autumn & Spring	6
EENG6760+	Digital Signal Processing and Control	15	Autumn & Spring	6
EENG6830	Reliability, Availability, Maintainability & Safety (RAMS)	15	Autumn & Spring	6

*Failure to attain the learning outcomes in this module may not be compensated or condoned.
+ In order to obtain credit for this module on IET accredited courses, the coursework mark and the exam mark must each be greater than or equal to 30% as well as achieving the pass mark for the module. This module will only be considered for compensation if the coursework mark and exam mark are each greater than 30%.

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG5610	Image Analysis and Applications	15	Spring	5
EENG6460+	Robotics and Artificial Intelligence	15	Autumn	6
EENG6770	Electronics for Communications	15	Autumn & Spring	6

+In order to obtain credit for this module on IET accredited courses, the coursework mark and the exam mark must each be greater than or equal to 30% as well as achieving the pass mark for the module. This module will only be considered for compensation if the coursework mark and exam mark are each greater than 30%.

All students, whether they are on a Year in Industry course or not, can choose to take the following non-contributory optional module:

Optional module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
WEENG001	Engineering Industrial Practice Stage 3	0	Autumn & Spring	W

ELECTRONIC AND COMPUTER ENGINEERING   UEEX0001X1ME-F
Single Honours

STAGE 4 – 120 credits

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
BUSN9340	Global Strategy	15	Spring	7
EENG7500*	Systems Group Project	60	Autumn & Spring	7
EENG8270	Advanced Digital Communication	15	Autumn & Spring	7
EENG8290 ⊿☐	Embedded Real time Operating System	15	Autumn & Spring	7
EENG8960 ⊿☐	Computer and Microcontroller Architectures	15	Autumn & Spring	7

*Failure to attain the learning outcomes in this module may not be compensated or condoned

⊿☐ In order to obtain credit for this module on IET accredited courses, the coursework mark and the exam mark must each be greater than or equal to 40% as well as achieving the pass mark for the module. This module will only be considered for compensation if the coursework mark and exam mark are each greater than 40%

ELECTRONIC AND COMMUNICATIONS ENGINEERING WITH A YEAR IN INDUSTRY
Single Honours   UELC0001P1ME-F

STAGE 4 – 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
BUSN9340	Global Strategy	15	Spring	7
EENG7500	Systems Group Project	60	Autumn & Spring	7
EENG8270	Advanced Digital Communications	15	Autumn & Spring	7
EENG8290 †	Embedded Real-Time Operating Systems	15	Autumn & Spring	7
EENG8960 †	Computer and Microcontroller Architectures	15	Autumn	7

† In order to obtain credit for this module on IET accredited courses, the coursework mark and the exam mark must each be greater than or equal to 40% as well as achieving the pass mark for the module. This module will only be considered for compensation if the coursework mark and exam mark are each greater than 40%.

MECHANICAL ENGINEERING   **UMEC0001X1BE-F**
MECHANICAL ENGINEERING INCLUDING A FOUNDATION YEAR   **UMEC0001F1BE-F**
MECHANICAL ENGINEERING INCLUDING A FOUNDATION YEAR AND A YEAR IN
INDUSTRY   **UMEC0001F5BE-F**
MECHANICAL ENGINEERING WITH A YEAR IN INDUSTRY   **UMEC0001P1BE-F**
Single Honours

STAGE 2 – 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG5170	Control and Mechatronics	15	Autumn & Spring	5
EENG5180	Dynamics of Machines	15	Autumn	5
EENG5190	Introduction to Fluid Dynamics	15	Spring	5
EENG5200	Failure of Materials and Structures	15	Spring	5
EENG5220	Design and Manufacturing Technology	15	Spring	5
EENG5620	Engineering Group Project	15	Autumn & Spring	5
EENG5650	Instrumentation and Measurement Systems	15	Autumn	5
EENG5770	Entrepreneurship and Professional Development	15	Autumn	5

Students on a Year in Industry will also take the following non-contributory compulsory module. This can also be taken by students who are not on the Year in Industry version as an optional, non-contributory module:

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
WMATH009	Engineering Industrial Practice Stage 2	0	Autumn & Spring	W

MECHANICAL ENGINEERING WITH A YEAR IN INDUSTRY   **UMEC0001P1BE-F**
MECHANICAL ENGINEERING INCLUDING A FOUNDATION YEAR AND A YEAR IN
INDUSTRY   **UMEC0001F5BE-F**

STAGE S – 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG7910*	Year in Industry (Industrial Assessment)	90	Year-long	5
EENG7920*	Year in Industry (Academic Assessment)	30	Year-long	5

*Failure to attain the learning outcomes in this module may not be compensated or condoned.

MECHANICAL ENGINEERING   **UMEC0001X1BE-F**
MECHANICAL ENGINEERING INCLUDING A FOUNDATION YEAR   **UMEC0001F1BE-F**
MECHANICAL ENGINEERING INCLUDING A FOUNDATION YEAR AND A YEAR IN INDUSTRY   **UMEC0001F5BE-F**
MECHANICAL ENGINEERING WITH A YEAR IN INDUSTRY   **UMEC0001P1BE-F**
Single Honours

STAGE 3 – 120 credits

You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG6000*	Project	45	Autumn & Spring	6
EENG6460	Robotics and Artificial Intelligence	15	Autumn	6
EENG6470	Finite Element Analysis	15	Autumn	6
EENG6480	Thermodynamics and Heat Transfer	15	Spring	6
EENG6830	Reliability, Availability, Maintainability and Safety (RAMS)	15	Autumn & Spring	6

*Failure to attain the learning outcomes in this module may not be compensated or condoned.

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
EENG5610	Image Analysis & Applications	15	Spring	5
EENG6141	Biomaterials	15	Autumn & Spring	6

All students, whether they are on a Year in Industry course or not, can choose to take the following non-contributory optional module:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL
WEENG001	Engineering Industrial Practice Stage 3	0	Autumn & Spring	W