

Programme Specification and Curriculum Map for *Science and Technology Foundation Year*



1. Programme title	Science and Technology Foundation Year
2. Awarding institution	Middlesex University
3. Teaching institution	Middlesex University
4. Programme accredited by	
5. Final qualification	Foundation Certificate
6. Academic year	2014/15
7. Language of study	English
8. Mode of study	Full time

9. Criteria for admission to the programme

Students accepted to study the Foundation Year should have equivalent of 80-200 UCAS entry points to gain entry. All candidates should possess at least grade C in GCSE Maths and English language, or equivalent.

Mature applicants with relevant work experience are also welcome to apply.

International students who have not been taught in the English medium must show evidence of proven ability in English such as TOEFL grade 550 or IELTS grade 6.0. The University provides pre-sessional English language courses throughout the year for candidates who do not meet the English requirements.

University policies supporting students with disabilities apply, as described in the University Regulations.

10. Aims of the programme

The programme aims to:

Prepare students for level 4 undergraduate study in Science and Technology subject areas and thereby:

- Provide students with knowledge and understanding of basic mathematical, academic communication and problem solving skills
- Support students to become self-directed learners for

undergraduate study

- Introduce students to a range of subject areas to facilitate their choice of degrees

Successful completion of this programme provides progression to degree programmes in the School of Science and Technology.

11. Programme outcomes

A. Knowledge and understanding

Teaching/Learning Methods

On completion of this programme the successful student will have knowledge and understanding of:

- A1.** Foundations of Mathematics and Statistics
- A2.** Strategies and techniques to support undergraduate studies
- A3.** Fundamentals of the chosen degree programme subject area

Students gain knowledge and understanding through:

Interactive lectures, supervised laboratories and workshops, online activities and tests, guided research, individual and group projects and reflection.

Formative verbal feedback is provided in practical sessions. Summative feedback is provided electronically and/or verbally.

Students are encouraged to actively participate in all sessions and a good attendance is compulsory.

Assessment methods

Students' knowledge and understanding is assessed by:

- Individual report
- Individual test
- Pair report
- Group presentation
- Learning logs
- Demonstrations

B. Cognitive (thinking) skills

Teaching/Learning Methods

<p>On completion of this programme the successful student will be able to:</p> <p>B1. Apply analytical skills by using basic mathematical and statistical techniques</p> <p>B2. Research and evaluate information and apply to given problems</p> <p>B3. Apply problem solving strategies to scenarios and formulate solutions</p> <p>B4. Reflect on their learning development</p>	<p>Students learn cognitive skills through:</p> <p>Interactive lectures, supervised laboratories and workshops, online activities and tests, guided research, individual and group projects and reflection.</p> <p>Formative verbal feedback is provided in practical sessions. Summative feedback is provided electronically and/or verbally.</p> <p>Students are encouraged to actively participate in all sessions and a good attendance is compulsory.</p> <p>Assessment methods Students' cognitive skills are assessed by</p> <ul style="list-style-type: none"> • Individual Report • Essay • Individual test • Group presentation • Learning logs with reflection • Demonstrations
<p>C. Practical skills</p>	<p>Teaching/Learning Methods</p>
<p>On completion of the programme the successful student will be able to:</p> <p>C1. Communicate effectively orally and in writing for different audiences</p> <p>C2. Apply mathematical and statistical skills to projects</p>	<p>Students learn practical skills through:</p> <p>Interactive lectures, supervised laboratories and workshops, online activities and tests, guided research, individual and group projects and reflection.</p> <p>Formative verbal feedback is provided in practical sessions. Summative feedback is provided electronically and/or verbally.</p> <p>Students are encouraged to actively</p>

	<p>participate in all sessions and a good attendance is compulsory.</p> <p>Assessment methods Students' practical skills are assessed by:</p> <ul style="list-style-type: none"> • Individual Report • Essay • Individual test • Group presentation • Learning logs with reflection • Presentation <p>Demonstrations</p>
D. Graduate Skills	Teaching/Learning Methods
<p>On completion of this programme the successful student will be able to:</p> <p>D1. Work as part of a team</p> <p>D2. Manage their own learning</p> <p>D3. Communicate effectively</p> <p>D4. Demonstrate awareness of professional development and employability skills</p>	<p>Students acquire graduate skills through:</p> <p>Interactive lectures, supervised laboratories and workshops, online activities and tests, guided research, individual and group projects and reflection.</p> <p>Formative verbal feedback is provided in practical sessions. Summative feedback is provided electronically and/or verbally.</p> <p>Students are encouraged to actively participate in all sessions and a good attendance is compulsory.</p> <p>Assessment methods Students' graduate skills are assessed by:</p> <ul style="list-style-type: none"> • Individual Report • Essay • Individual test • Group presentation • Learning logs • Presentation • Demonstrations

12. Programme structure (levels, modules, credits and progression requirements)		
12.1 Overall structure of the programme		
Module Title	Code	
SMART (S tudents M astering A cademic writing, R esearch and T echnology)	SAT0100	
Foundation Mathematics	SAT0200	
Foundation Project	SAT0300	
Computing and Digital Technology	SAT0400	
12.2 Levels and modules		
Starting in academic year 2010/11 the University is changing the way it references modules to state the level of study in which these are delivered. This is to comply with the national Framework for Higher Education Qualifications. This implementation will be a gradual process whilst records are updated. Therefore the old coding is bracketed below.		
COMPULSORY	OPTIONAL	PROGRESSION REQUIREMENTS
Students must take all of the following: SAT0100 SAT0200 SAT0300	Students must also choose at least one optional module: SAT0400	Students must pass all modules to be awarded the Foundation Certificate
12.3 Non-compensatable modules (note statement in 12.2 regarding FHEQ levels)		
Module Level	Module Code	
	University regulations state grades 17 or 18 may be compensated subject to satisfactory overall performance. Compensation is limited to a maximum of 30 credits within a 120 credit foundation level programme.	
13. Curriculum map		
See Curriculum Map attached		
14. Information about assessment regulations		
In order to successfully pass the Science and Technology Foundation		

Year, students must pass all four modules.

Grades are awarded on the standard University scale of 1–20, with Grade 1 being the highest.

15. Placement opportunities, requirements and support (if applicable)

N/A

16. Future careers (if applicable)

N/A

17. Particular support for learning (if applicable)

As a Foundation Year student you will take part in Induction programme and are introduced to the teaching team, support services, university resources including e-learning, subject librarians etc. You will also get to know your peers by taking part in team building exercises and practical demonstrations based on different subject areas.

The design of the Foundation Year is based on integrated approach and the four modules are linked to each other, thus providing best possible support for your learning. Subject librarians and Learner Development Unit tutors provide expert guidance on written and oral communication skills and their support is embedded in the Foundation programme curriculum. A team of dedicated staff including Student Learning Assistants, Graduate Teaching Assistants and a dedicated Achievement Officer provide extra student support.

The programme aims to engage you in all aspects of your learning. You are required have good attendance record; are encouraged to actively participate in taught sessions either individually, with your peers or collaboratively in small groups.

Your learning is supported by technology and through MyUnihub you will have flexible access to all learning materials; assessment information; online tests and quizzes; student records; Library resources and other University services.

18. JACS code (or other relevant coding system)

Dependent on choice of a degree at entry stage.

19. Relevant QAA subject benchmark group(s)

N/A

20. Reference points

QAA - The Framework for Higher Education Qualifications in England,

Wales and Northern Ireland (FHEQ) (August 2008)

QAA Computing subject benchmark statement, available at:

<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/computing07.pdf>

Middlesex University Regulations

21. Other information

N/A

Please note programme specifications provide a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve if s/he takes full advantage of the learning opportunities that are provided. More detailed information about the programme can be found in the programme handbook and the University Regulations.

Curriculum map for Science and Technology Foundation Year

This section shows the highest level at which programme outcomes are to be achieved by all graduates, and maps programme learning outcomes against the modules in which they are assessed.

Programme learning outcomes

Knowledge and understanding		Practical skills	
A1	Foundations of Mathematics and Statistics	C1	Communicate effectively orally and in writing for different audiences
A2	Strategies and techniques to support undergraduate studies	C2	Apply mathematical and statistical skills to projects
A3	Fundamentals and principles of chosen degree programme	C3	
Cognitive skills		Graduate Skills	
B1	Analyse using basic mathematical and statistical techniques	D1	Work as part of a team
B2	Research and evaluate information and apply to given problems	D2	Manage their own learning
B3	Apply problem solving strategies to scenarios and formulate solutions	D3	Communicate effectively
B4	Reflect on their learning development	D4	Demonstrate awareness of professional development and employability skills

