Wrexham glyndŵr UNIVERSITY

MODULE SPECIFICATION PROFORMA

Module Title:	Intensive English with Analytical Skills	**Level**:	4	**Credit Value:**	40

Module code:	LAN472	**Is this a new module?**	Yes	**Code of module being replaced:**	N/A

Cost Centre(s):	GAME	JACS3 **code**:	Q190

With effect from:	July 17

School:	Applied Science, Computing & Engineering	**Module Leader:**	Tom Rozario

Scheduled learning and teaching hours	100 hrs
Guided independent study	230 hrs
Placement	70 hrs
Module duration (total hours)	400 hrs

Programme(s) in which to be offered	Core	Option
EU/EEA students enrolled on ASCE Summer School or UG/PG programmes	☐	✓
	☐	☐
	☐	☐

Pre-requisites
IELTS 5.0 / B1 (or equivalent)

Office use only

Initial approval: July 17

APSC approval of modification: *Enter date of approval* Version: 1

Have any derogations received LTQC approval? Yes ☐ No ☐ N/A ✓

If new module, remove previous module spec from directory? Yes ☐ No ✓

Module Aims

This stand-alone module is aimed at short-term study students who are seeking to improve their general English language proficiency, as well as improve their analytical skills and associated subject-specific English vocabulary. The module allows students to experience study in the UK, and prepares them for further undergraduate study at Wrexham Glyndŵr University, subject to the requisite entry criteria being met*.

The module will focus on improving both general English language and STEM English language skills based around a core of mathematical knowledge through two strands of teaching: EFL (General English) and CLIL (Content and Language Integrated Learning).

It will facilitate learning similar in content to material taught in their home university but through the medium of English. This intensive study experience will be further enhanced through a social programme that will not only foster incidental language acquisition, but also expose students to various aspects of British culture and everyday life in the UK.

**The English language assessment for this module is not on the UKVI's list of Secure English Language Tests so it cannot be used for immigration purposes.*

**Completion of this module in itself does not guarantee that students will be accepted for further study at Glyndŵr. They may still be required to provide evidence they meet the overarching undergraduate entry criteria as part of an application for another programme.*

Intended Learning Outcomes

Key skills for employability:

KS1	Written, oral and media communication skills
KS2	Leadership, team working and networking skills
KS3	Opportunity, creativity and problem solving skills
KS4	Information technology skills and digital literacy
KS5	Information management skills
KS6	Research skills
KS7	Intercultural and sustainability skills
KS8	Career management skills
KS9	Learning to learn (managing personal and professional development, self-management)
KS10	Numeracy

At the end of this module, participants will be able to		Key Skills	
1	Show an improvement of IELTS 0.5 points in English language competence with regards writing and speaking skills (including engineering and mathematical terminology).	KS1	KS4
		KS9	KS10
2	Show an improvement of IELTS 0.5 points in English language competence with regards reading and listening skills (including engineering and mathematical terminology).	KS10	KS3
		KS5	KS9
3	Use a foundation of mathematical knowledge covering a wide range of basic topics through the medium of English language.	KS10	KS3
		KS5	KS9

4	Apply analytical skills to the solution of problems through the medium of English language.	KS10	KS3
		KS5	KS9

Transferable skills and other attributes

- To improve learning and performance skills (e.g. ability to organise study time, to
- study independently, to learn from feedback, and to meet deadlines);
- To analyse language learning progression and study skills, to identify barriers to learning and develop robust strategies to overcome them;
- To develop competence in intercultural communication;
- To develop logical and mathematical argumentation in English language;
- To develop communication skills in written and spoken English, and skills in conveying mathematical ideas including the use of terminology in sentences;
- To be able to appreciate mathematical models of simple situations in English.

Derogations

N/A

Assessment:

Assessment is by means of a systematic collection of student work and related material that depicts the student's activities, accomplishments, and achievements covering LOs 1-4.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1, 2, 3, 4	Portfolio	100	N/A	N/A

Learning and Teaching Strategies:

The module will be delivered primarily through lectures, with opportunities for speaking practice in the form of conversation classes, and analytical skills practice through interactive lab tutorials. Tutorials are supported by practice using computer software both during tutorial time and during directed study time outside the classroom. Coursework will be made available through Moodle as well as hand-outs, and students will have access to additional Moodle exercises to facilitate independent learning. In addition, a dedicated social programme will provide more opportunities for conversation and cultural exchange through excursions, film evenings, quiz nights, etc.

Syllabus outline:

Writing skills: sentence construction, clause structure, paragraph construction, cohesion, coherence, linking words/transition phrases
Reading skills: skimming, scanning, identifying textual patterns
Listening skills: listening for gist/specific details, note-taking,
Speaking skills: conversation skills, pronunciation
Vocabulary skills: core Engineering and Mathematics vocabulary, verb patterns, word formation, common collocations
Grammar: modality (tense and aspect), word order, noun phrase features, verb phrase features, modifying phrase features

Number systems skills: Numbers, place value, scientific notation and significant figures. Fractions. Use of calculator; Algebra: Rules and manipulation of algebraic expressions. Language of derivation (and symbols). Solutions of equations. Introduction to polynomials; Functions and Graphs: Define function. Plotting and interpreting graphs. Slopes, intersection.

Trigonometric functions skills: Powers: indices, exponentials and logarithms; Graphs: Linear graphs from non-linear functions; Statistics: Define and calculate numeric measures of average and spread. Complex numbers: Different forms and arithmetic, DeMoivre's theorem, powers and roots, relation between trig and hyperbolic functions; Vector algebra: Addition and subtraction, unit vectors, scalar and vector products.

Differentiation/ Integration Skills: Products, quotients, implicit and parametric differentiation, use of logs for complex products and quotients, applications; Integration: Methods of substitution, partial fractions and by parts. Definite indefinite integrals, applications; Applications: Contextualising the application of the topics considered in this module to make them relevant to the chosen technology specialism.

Bibliography:

Essential reading

School of Applied Science, Computing & Engineering (2017) *LAN472 Course Kit*, Wrexham: Wrexham Glyndŵr University.

Other indicative reading

Badger, I. (2012) *Collins English for Life: Listening B1*, London: Collins.

Barr Ebest, S., Alred, G., Brusaw, C.T. and Oliu, W.E. (2004) *Writing from A to Z.* 5th ed. Columbus: McGraw-Hill Higher Education.

Bird, J. (2010) *Engineering Mathematics*, 6th ed., Newnes.

Craven, M (2008) *Cambridge English Skills: Real Listening and Speaking 3*, Cambridge: Cambridge University Press.

Glyn, J. (2015) *Modern Engineering Mathematics*, 5th ed., Prentice-Hall.

McCarthy, M. and O'Dell, F. (2004) *English Phrasal Verbs in Use: Intermediate.* Cambridge: Cambridge University Press.

McCarthy, M. and O'Dell, F. (2012) *English Vocabulary in Use: Upper-Intermediate*. 2nd ed. Cambridge: Cambridge University Press.

Murphy, R. (2012) *English Grammar in Use: Intermediate*. 3rd ed. Cambridge: Cambridge University Press.

Singh, K. (2011) *Engineering Mathematics through Applications*, 2nd ed., Palgrave Macmillan.

Key Website References:

BBC Learning English: www.bbc.co.uk/learningenglish/

British Council Learn English: http://learnenglish.britishcouncil.org/en/

Oxford University Press Learning Resources Bank: https://elt.oup.com/learning_resources/

Khan Academy: http://www.khanacademy.org/

Mathcentre: http://www.mathcentre.ac.uk/students/topics/