

LTC14D196

Title: *SCI LTQC Course Approval – BSc Computer Graphics, Imaging and Multimedia with a Year in Industry*
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Date: 01/05/15
Circulation: LTC - 13 May 2015
Agenda: LTC14A005
Version: Final Version
Status: Open

Issue

To approve a new course approval for SCI BSc Computer Graphics, Imaging and Multimedia with a Year in Industry from the Faculty of Science, Learning and Teaching and Quality Committee.

Recommendation

Approval of the course proposal

Resource Implications

See comments in course proposal.

Risk Implications

None.

Equality and Diversity

See comments in course proposal.

Timing of decisions

SCI LTQC approved (subject to minor amendments) on 29/04/15 and then by Chairs action 01/05/15. New course to be introduced for 2016/17.

Further Information

Contact details: Carole Bull, Learning and Teaching Coordinator, telephone 01603 593217, email: c.bull@uea.ac.uk, for any queries/further information relating to this document.

Background

N/A

Attachments

Course Proposal.



LEARNING & TEACHING SERVICE

FULL COURSE PROPOSAL FORM

(taught programmes only)

for **NEW COURSES** and
COURSE AMENDMENTS
with **RESOURCE IMPLICATIONS**

Please refer to the course proposal Procedure and Guidance CP-2013 to complete this or any other course proposal form: to ensure the correct form is being used; for information on early considerations and timescales; for general guidance on the course approval process; and for notes on completing the form.

Course Title(s)	new course? <i>note 1</i>		If no, please give existing course code
Computer Graphics, Imaging and Multimedia with a year in industry	Y		
School(s) of study & Faculty			
CMP / SCI			
Proposer & proposer's school			
Dr. Rudy Lapeer (Course Director CGIM), Dr. Stephen Laycock (Director of Admissions)			
Proposed start date (of new course or of changes)			<i>note 2</i>
September 2016			
I can confirm that this proposal meets the criteria for using the Minor Changes Course Proposal Form <i>note 3</i>		Y	N

This form is in 5 parts:

- Part 1 Summary and Rationale
- Part 2 Business Case
- Part 3 Academic Case including Programme Specification
- Part 4 Key Information Set (KIS) data
- Part 5 Approvals and Notification

The initiator is responsible for completing parts 1-4

UEA LEARNING & TEACHING SERVICE

FULL COURSE PROPOSAL

Part 1 SUMMARY AND RATIONALE

Course One			
S1	a	SCHOOL(S) OF STUDY	CMP (Some modules from AMA)
<i>note S1c</i>	b	FACULTY or FACULTIES	SCI (HUM)
	c	JOINT COURSE? (ie owned/taught by more than one School)	YES
			NO
	d	NAME OF COURSE DIRECTOR (Home School)	Dr Rudy Lapeer
	e	NAME OF DEPUTY COURSE DIRECTOR (partner School, for Joint Courses only)	
S2 <i>note S2a</i>	a	COURSE TITLE	Computer Graphics, Imaging and Multimedia with a Year in Industry
<i>note S2b</i>	b	COURSE CODE	TBA
<i>note S2c & S2d</i>	c	AWARD	BSc (Hons) Computer Graphics, Imaging and Multimedia
	d	EXIT AWARD(S) AND TITLE(S)	Certificate of Higher Education, Diploma of Higher Education
	e	FULL/PART-TIME (please specify)	Full-time
	f	LOCATION (UEA Norwich, UEA London, Distance Learning)	UEA, Norwich
	g	AVAILABLE FROM:	September 2016
S3 <i>note S3a</i> <i>note S3b</i>	a	PROFESSIONAL AWARD (if any)	n/a
	b	ACCREDITING/VALIDATING BODY (if relevant)	BCS – The Chartered Institute for IT
		Website (URL)	http://www.bcs.org/
		Date when accreditation/validation may take place	Revalidation event - 18 November 2015
S4 <i>note S4</i>	LEVEL	Sub-degree (e.g. Cert. Dip.)	
		Undergraduate	Level 6 – Honours degree
		Integrated Masters	-
		Masters	-
		Other postgraduate (please specify)	-

S5 <i>note</i> S5a	a	DURATION (years or months)	4 years		
<i>note</i> S5b	b	MODE OF ATTENDANCE (full-time, part-time, distance, other)	Full-time		
S6 <i>note</i> S6	PLACEMENT(S)/WORK-BASED LEARNING REQUIRED		YES	YES – Year in industry	NO
			If YES, does this conform with the UEA's code of practice on placements?		
S7 <i>note</i> S7	RELEVANT SUBJECT BENCHMARK STATEMENT(S)		Computing Benchmark		
S8 <i>note</i> S8	ENTRY REQUIREMENTS		ABB (One A level or equivalent is preferred in the following subjects: Mathematics, Computing, Physics , Electronics, Economics , Biology and Chemistry.)		
S9	JACS Subject Level Code(s) To be completed by the Planning Office following approval of the Business Case				
S10	UCAS ADMISSION CODE / COURSE CODE To be completed by the Planning Office following approval of the Business Case				
S11 <i>note</i> S11	FURTHER INFORMATION available via...		The School Undergraduate Degree programme pages https://www.uea.ac.uk/computing/undergraduate-degrees		
S12	COURSE HIGHLIGHTS (for publication in University Prospectus / Website / other publicity) NB Please include employability prospects/career possibilities				
<i>note</i> S12	<p>The Computer Graphics, Imaging and Multimedia with a year in industry degree programme allows you to combine your interests in video and sound processing with the technical knowledge of computing science. Throughout the course you will not only learn about the computing science that underpins imaging and multimedia, you will also study modules in the areas of music, film and TV, providing a unique creative perspective to the degree programme.</p> <p>This course is designed for applicants who wish to enter the film, media, games and entertainment industries alongside being well-equipped with modern day advanced computing science skills. The programme also has full Chartered IT Professional (CITP) accreditation as well as leading to Chartered Engineer (CEng) status from the BCS – (The Chartered Institute for IT). With a Year in Industry placement, you will have the opportunity to develop and learn within a work environment. The year's work experience enables you to enhance the skills you will need for a career in this sector and gain vital networking opportunities for your future.</p> <p>The course will be taught by our academic staff, offering their expertise in computer graphics, computer games development, speech and audio processing and computer vision to enhance your learning. You will also benefit from additional teaching by professional film, video and TV producers based within the School of Art, Media and American Studies. We have strong links with many related imaging and multimedia companies and we use these contacts to help us to shape the degree content, designing coursework projects based on real-world problems.</p>				

****Please copy and paste the above table for additional (related) courses****

S13	RATIONALE FOR PROPOSAL
<i>note S13</i>	Please explain why you are proposing this/these new course(s) or these course amendments, and why this proposal is being offered at this time. See guidance notes for further indication of what to include in this section.
	<p>The School of Computing Sciences offers a Year in Industry in three of its four key areas, i.e. Computing Science, Business Information Systems and Computer Systems Engineering but not for Computer Graphics, Imaging and Multimedia (CGIM).</p> <p>We have had many requests from current students on the CGIM course for the Year in Industry option as well as from applicants during visit days over the last few years. The addition to the CGIM course of a Year in Industry option will complement the operational format of the degree offer in the School. The resource required to manage the administration for the scheme is operated within the School and will be absorbed with existing staff.</p> <p>Currently the only way to provide this course variant is for the student to transfer in Year 3 and then transfer back in Year 4. This causes substantial administrative overhead.</p>

UEA LEARNING & TEACHING SERVICE

FULL COURSE PROPOSAL

Part 2 BUSINESS CASE

note BC

BC1	ACADEMIC AND RECRUITMENT STRATEGY	Consult with HOS, Faculty Dean, PLN, ARM (including Admissions)	
BC1.1	How does the proposal fit with the University's Corporate Plan?		
<i>note BC1.1</i>	The university's drive towards improving Careers & Employability fits in perfectly with the Year in Industry programme. Students undertake a placement for one year with a local or UK based company. This opportunity to develop their work based skills (communication, attendance, professionalism) and provide an invaluable insight into the operation of the sector enhances their career prospects. We have evidence from our other Year in Industry variants that this formula works as many students are offered a position after graduation by the company they had a placement.		
BC1.2	Proposed Recruitment Strategy		
<i>note BC1.2</i>	Current and past CGIM students have requested transfers to the Year in Industry course and several CGIM applicants have requested whether this variant exists. Since the programme already exists for the other CMP courses, the strategy is already place but we will emphasise its availability for the CGIM course specifically by pointing towards already established industrial collaborations which CMP has with the games, entertainment and media industries who are capable of offering industrial placements. We will develop the undergraduate pages and use applicant and open days to promote the programme.		
BC1.3	Partnership and commercial sensitivity		
<i>note BC1.3</i>	Has this proposal, in outline, been approved by the Partnerships Office?	YES	
		NO	
	Please paste their comments below		
	Emailed partnership office 09.12.2014 for comment – nothing received to date.		

BC2 <i>note BC2</i>	MARKET RESEARCH	Consult with Market Research team	
BC2.1	What other and type of institution offers identical and/or similar courses in the UK?		
	The following universities offer Games, Imaging or Graphics courses with Year in industry options:		

	<p>Aberystwyth University – BSc Computer Graphics, Vision and Games (inc Integrated Industrial and Professional Training)- 280 tariff points</p> <p>University of Sussex – Same</p> <p>University of Hull – Computer Science for Games Development with Study Abroad- 280 tariff points</p> <p>Kingston University – Computer Graphics Technology, Games Technology with Professional Placement, Computer Science (Games Programming) All 280 tariff points</p>	
BC2.2	Are there any likely international competitors? (Please give brief details)	
	<p>There are many fringe courses offered nationally and internationally which may have sandwich years/industrial placements but since the CGIM course attracts mostly UK students, it is unlikely that these courses would be a threat to our intake.</p>	
BC2.3 <i>note</i> <i>BC2.3</i>	What is the annual number of applicants currently applying nationally for similar courses, and what are the entry requirements for these competitor courses?	
	<p>In 2013, 3640 students applied for media and games related courses of which 955 were accepted (source: UCAS). Considering that only a handful of universities offering similar courses, this number is relatively high.</p>	
BC2.4	What is the evidence for current and future demands for the course from	
	<ul style="list-style-type: none"> • potential students? • employers (public services, private sector, the professions etc) 	
	<p>CGIM applicants have requested on numerous occasions whether a Year in Industry variant is available.</p> <p>We have industrial collaborations with companies who are keen to offer placements that fit in with the label of media and entertainment including FXHome (local company), Frontier (Cambridge), Blitzgames (Warrington) and IBM.</p>	
BC2.5	Can current and projected demand be met from existing provision?	
	Nationally:	YES
	Regionally:	YES
BC2.6	Where is/what are the competitive advantage(s) for UEA?	
	<p>The CGIM course has always attracted motivated students who have ended up in key positions in the games, media and entertainment industries. An established and already strong CGIM programme plus the know-how as to how to run the Year in Industry programme combined with established links with a number of local and national companies gives CMP/UEA a competitive advantage over other institutions.</p>	

BC3 <i>note</i> BC3	MARKET DEMAND AND RECRUITMENT	Consult with Careers and Employability team
BC3.1	What graduate career opportunities may be available?	
	We have strong ties with the local and national computer games and media industries. Having finished a successful placement often results in immediate recruitment of the student by the same company after graduation. Even if this is not the case, the student will already have relevant industrial experience which is often a requirement when applying for a permanent job.	
BC3.2	Who (externally) has been consulted about the proposals (e.g. Professional Associations, employers' groups, PSRBs)?	
	N/A	

BC4 <i>note</i> BC4	STUDENT NUMBERS AND TUITION FEES	Consult with HOS, PLN, Faculty Dean, FFM			
BC4.1	Student Numbers				
a	Proposed student target intake	number			
<i>note</i> BC4.1a	Full Time (Home/EU)	10			
	Full Time (International)				
	Part Time (Heads)				
	Distance Learning (Heads)				
	Minimum viable intake (full times equivalents)				
	Maximum viable intake (full times equivalents)				
b	Are the student numbers:				
<i>note</i> BC4.1b	a) available via redistribution within the School? <i>Consult the Head of School</i>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
	b) available via redistribution with the Faculty? <i>Consult the Dean of Faculty</i>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
	c) additional numbers required? <i>Consult the Planning Office (PLN)</i>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
	Please give a summary of how your answers to a), b) and c) above will be achieved.				
	If applicants are offered places on the Computer Graphics with a Year in Industry course, then fewer places will be offered on the other Computing Science courses within the School.				
BC4.2	Tuition Fees				
	Please select the relevant fee schedule:				
	a) Standard Home/EU/International	<input checked="" type="checkbox"/>			
	b) Full-cost <i>Please consult with FFM</i>	<input type="checkbox"/>			

	c) Other <i>Please provide brief details</i>	
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BC5	IMPACT		
BC5.1 <i>note BC5.1</i>	EQUALITY AND DIVERSITY	Consult with Equality & Diversity Manager and Widening Participation team	
a	Does the course and/or School cover a subject area(s) which traditionally attract(s) a very specific or narrow student profile?	YES	
		NO	X (but see BC5.1b)
b	If yes, what steps will be taken to attract non-traditional students to the course/School? (Aspects to consider include: age, disability, ethnicity (home and international), gender, sexual orientation, religion and belief, and socio-economic group.)		
	<p>Our analysis of equality and diversity in the subject area is encouraging as it demonstrates that this programme is currently recruiting higher numbers of female applications than our Computing Science programme, when reviewed as a ratio of the total number of students. In 2014/15 33% of women compared to 14% of women on the computing science programme.</p> <p>However, it is recognised that the total numbers of applicants are relatively small and the Subject area nationally has a male bias in application. The School is currently working toward an Athena Swan bronze application and students across the School will benefit from the diversity and equality action plans that will be put in place.</p> <p>We would hope to use future case study success from our female applications in marketing literature.</p> <p>The School is already involved in outreach and will continue to work hard to promote the opportunities that a degree qualification within Computing Science can provide.</p>		
c	Will students undertake placements/ come into direct contact with vulnerable groups as part of their study? If so, will a CRB be required?		
	No		
BC 5.2 <i>note BC5.2</i>	CURRENT STUDENTS AND/OR APPLICANTS		
a	Have School SSLCs been consulted regarding this proposal? If YES, what has been their input/response?	YES	X
		NO	
	The SSLC was unanimously in favour of a Year in Industry variant for the Computer Graphics, Imaging and Multimedia course. More specific quotes from SSLC student committee members included:		

	<p>“A Year in Industry is something I feel very strongly about, and was something I had wanted to consider.”</p> <p>“It is just as relevant that Imaging+Multimedia has the option for a Year in Industry as the other CMP courses, as it’s a great opportunity and is highly valued by employers.”</p>		
b	Will any current students or applicants be affected by this proposal?	YES	
		NO (go to 5.3)	X
c	<p>Evidence of consultation of current students and written consent obtained</p> <p>Please briefly describe what consultation has taken place and what responses there have been. Is there full support from all members of the relevant student cohort(s)?</p>		
	<p>Current G450 (Computer Science, Imaging and Multimedia) students who were consulted were generally in favour a Year in Industry variant. Specific comments include:</p> <p>“if a Year in Industry variant were to be put in place for Imaging+Multimedia I would certainly consider transferring to it.</p> <p>“Personally, I applied to study Computing Science Imaging and Multimedia because I am passionate about computing and also love art. The course is perfect for my kind of person. Having a year in Industry will give students further opportunity to explore both the computing and artistic aspects of the course.”</p> <p>“I think it is a good idea though specific companies need to be identified to provide placements suitable for the course.”</p>		
d	<p>Informing applicants</p> <p>What arrangements have been made (for informing applicants who may be affected by any change(s)? Written notification, including advice about any alternative options that may be given, must be sent to applicants holding unconditional/ conditional firm or conditional insurance offers.</p>		
	N/A		
BC5.3 <i>note BC5.3</i>	ACADEMIC STAFF	Consult with HOS, Dean of Faculty	
	What is the impact / what are the resource implications of the proposal on academic staff?		
a	Please give an indicative number of <u>additional</u> teaching hours required within the school to deliver the new course/changes to the course in any one year		0
b	Is a new discipline or specialism being introduced that requires a new appointment?	YES	
		NO	NO
c	Are new appointments required to meet any additional hours?	YES	
		NO	NO
d	If yes to either b or c above, how many of what type (eg Teaching and Scholarship, Teaching and Research) and at what level?		
	N/A		
e	What is the source of funding for new academic staff?		
	N/A		

f	Are there any implications outside the sponsoring School/s e.g. service teaching, by other Schools of Studies?		
	N/A		
g	Are any other teaching adjustments required? For example, will new modules be introduced, other modules withdrawn or combined?		
	N/A		
BC5.4 <i>note</i> BC5.4	COURSE RATIONALISATION	Consult with HOS, Dean of relevant Faculties, PLN	
a	DO ANY SIMILAR COURSES ALREADY EXIST AT UEA?	YES	X
		NO	
	If YES, please specify Course name, UCAS Code(s) / Course codes		
	Year in industry modules are already provided for other programmes as such the CGIM with a year in industry variant does not require additional modules. The course codes of the Year in Industry variants are: G401 (Comp.Sci.), GN55 (Business Information Systems), HG6M (Computer Systems Engineering).		
b	IS/ARE ANY COURSE(S) TO BE CLOSED TO NEW APPLICANTS AS PART OF THIS PROPOSAL?	YES	
		NO	X
	If YES, please specify Course name, UCAS Code(s) / Course codes and date from which course(s) is to be withdrawn?		
	N/A		
c	Please give an indicative number of teaching hours <u>released</u> within the school in any one year by the closure of the courses listed above		N/A

BC6	PHYSICAL RESOURCES		
BC6.1 <i>note</i> BC6.1	What new or additional facilities and /or equipment are required for the delivery of this course?		
a	Classroom and study facilities	N/A	
b	Computer equipment	N/A	
c	Other equipment	N/A	
d	Consumables	N/A	
BC6.2	What additional books/journals/electronic resources other than those already available will be required year by year until steady state is reached?		
	N/A		
BC6.3	Are there any other special arrangements on which this course proposal will depend? (E.g. placements, year abroad).	YES	X
		NO	
	If Yes, please give details of likely costs/whether appropriate agreements are in place/have to be drawn up?		
	There will be a Year in Industry placement. The School already runs four Year in Industry courses: Actuarial Science; Computer Systems Engineering; Computing for Business; and Computing Science. The new course will follow the same model where the year 3 students will be enrolled on two modules for the year – Year in		

	Industry CMP-6011Y, which is an 80 credit module, attendance only; and Industrial Project Report, CMP-6014Y, which is a 40 credit module assessed by a project report.	
	Like the four existing Year in Industry courses in CMP, the new course will follow the University's Code of Practice for Placement Learning and Work-Based Learning. Arrangements already exist within the School and within the SCI Faculty for supporting students on Year in Industry courses and students on the new course will receive the same support.	
BC6.4	Are there any start-up costs (e.g. any initial publicity and promotion?)	YES
		NO X
	If yes, please give details:	
	N/A	

BC7 <i>note</i> <i>BC7</i>	IMPACT / RESOURCE IMPLICATIONS FOR OTHER UNIVERSITY SERVICES	
COMPLETION OF THIS SECTION TO BE COORDINATED BY LEARNING AND TEACHING SERVICE (LTS) COORDINATOR		
Please circulate Parts 1 & 2 to the following for their comments (if any). Comments to be returned within 10 working days.		
<i>note</i> <i>BC7</i>	What is the impact of the proposal on support staff and resources in the office for which you are responsible?	
Date of circulation:	09.03.2015	
BC7.1	Dean of Students (DOS)	
	Although the proposed course will lead to a modest increase in student numbers, any increase potentially adds to the pressures on the already over-stretched services delivered by DOS.	
BC7.2	Deputy Dean of Students (accommodation)	
	New full-time students who meet the conditions of their offers and do not reside within 12 miles of the University remain within the University's current accommodation guarantee. Subject to the granting of Planning Permission, we hope to have additional residential capacity in September 2016.	
BC7.3	Director of Information Services (ISD)	
	No comment to make.	
BC7.4	Director of Library Services (LIB)	
	As this course exists already there are no concerns from the library about resources. However, should any new texts/extra copies of texts in stock be required the Course Director should liaise with the CMP Faculty Librarian well in advance of the course start. If any additional journal titles are required it is	

	the current policy for the School to identify a suitable journal of equal value within the library budget for cancellation.
BC7.5	Careers Manager (CCEN)
	The Career Service currently provides specific support for Year In Industry students in collaboration with the school which prospective students to this course would have access to. These students would also be able to access the full range of central services provided by the Career Service including workshops, guidance and year in industry placement advertisements.
BC7.6	Head of Learning & Teaching Service (LTS)
	As there are no additional numbers proposed, it doesn't look like there would be any additional resource requirement for the Service. However, we review student numbers each year across the service, and this would be kept under review. There is no detail on how the year in industry operates, how students are allocated or find their placements, or how they are supported whilst out in the year in industry. Box BC6.3 specifically asks if there are any special arrangements such as 'placements, year abroad' and the proposal states 'no'. The 80 credits 'year in industry' module appears to be 'attendance only'. This is 'pass/fail' and therefore AC1.2 b should reflect this. There is no detail given on how the attendance will be monitored, or what the School would do if the student failed to attend regularly. Having systems in place to monitor attendance and follow up on non-attendance is part of the Code of Practice on placement learning, which any year out should adhere to. The only academic requirement to pass the year in industry is the 40 credit project; this is presumably a model that works for the other year-in-industry courses already available.
BC7.7	Head of Admissions (ARM)
	No comments to make.
BC7.8	Director of Planning Office (PLN)
	None received.
BC7.9	Any other service or department
<i>note</i> BC7.9	

BC8	ADDITIONAL COMMENTS
COMPLETION OF THIS SECTION TO BE COORDINATED BY LEARNING AND TEACHING SERVICE (LTS) COORDINATOR	
Please circulate Parts 1 & 2 to the following for their comments (if any). Comments to be returned within 10 working days.	
<i>note</i> BC8	Is there anything further to add to the proposal from the perspective of your service and expertise?

Date of circulation:	09.03.2015
BC8.1	Market Research Manager (on Section BC2)
	<p>This form contains reference to UCAS data; as this was not requested from the BIU and the source is not given we cannot comment on the validity. The form also outlines competitor institution entry requirements for what have been identified as competitor courses but does not site the source for these or the specific course being considered. The BIU have reviewed competitor courses via the UCAS website and individual institutional websites and have found considerably different entry requirements. We would recommend clarifying this situation before approval. Black text as given in form, red text as found by the BIU.</p> <p>The following universities offer Games, Imaging or Graphics courses with Year in industry options:</p> <p>Aberystwyth University – AAB BSc Computer Graphics, Vision and Games (inc Integrated Industrial and Professional Training)- 280 tariff points</p> <p>University of Sussex – AAB/ABB Same</p> <p>University of Hull – AAB Computer Science for Games Development with Study Abroad- 280 tariff points</p> <p>Kingston University – AAB/BBB Computer Graphics Technology, Games Technology with Professional Placement, Computer Science (Games Programming) All 280 tariff points</p>
BC8.2	Careers Manager (on Section BC3)
	I fully support this course proposal as we increasingly see a demand on graduating students to have some form of relevant experience in order to access graduate level jobs. Year in industry students often return to their final year motivated to do well and progress in a positive direction.
BC8.3	Equality & Diversity Manager (on Section BC5.1)
	None received.
BC8.4	Director of Planning Office (PLN) (on full Business Case)
	None received.
BC8.5	Faculty Finance Manager (on full Business Case)
<i>note</i> BC8.5	No comments to add.

BC9	PROPOSER'S RESPONSE TO COMMENTS IN BC7 & BC8 ABOVE
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<p><i>note</i> BC9</p>	<p>BC7.6 – we have amended our responses in boxes BC6.3 and AC1.2b/c. In particular, this clarifies that the School already has four existing Year in Industry courses and that students on the new course will receive the same level of support from the School and the SCI Faculty as the existing students, and all in compliance with the University’s Code of Practice for Placement Learning and Work-Based Learning.</p> <p>Year in Industry support is given in Year 2, prior to the placement in Year 3 and includes preparation of the student’s CV and Interview techniques to ensure that the student maximises his/her chances of getting the placement. This support is provided by academic staff (Dr. Mark Fisher – Director of Industry Placements for CMP and Dr. Lapeer – Employability Director, CMP) and the Careers Centre (Rachael Rose). Placements are offered by a good number of local and UK based companies, for example IBM, Aviva, HP, Xerox, Accenture and many more.</p> <p>The 80 credits module requires the students to submit bullet-point style reports on a bi-monthly basis using a one page template, summarising the work-related activities they have been undertaking. The student’s line-manager is required to sign the forms to acknowledge attendance in the workplace and factual accuracy but does not assess the report.</p> <p>Box AC1.2b has been changed to Yes and Box AC1.2c updated.</p> <p>BC8 - We have amended section BC2 to incorporate the BIU data included in comment BC8.1</p> <p>Considering the corrected data of 280 tariff points for most competitor universities this implies that CMP sets higher standards overall. This is particular important for the Year in Industry as students represent the school/uni to an external organisation.</p>
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UEA LEARNING & TEACHING SERVICE

FULL COURSE PROPOSAL

Part 3 ACADEMIC CASE (including Programme Specification)

AC1	COURSE MANAGEMENT INFORMATION				
AC1.1	REGULATORY FRAMEWORK (please tick all that apply)				
	Undergraduate Regulations (including Integrated Masters)				√
	Postgraduate Taught Regulations				
	Graduate Diplomas				
	PGCE				
AC1.2a	Is the course as a whole assessed on a pass/fail basis?	YES		NO	√
AC1.2b	Are any modules assessed on a pass/fail basis?	YES	√	NO	
AC1.2c	If so, how many modules and what is the credit volume for each module?				
	<p>Year in Industry CMP-6011Y, 80 credits, attendance only.</p> <p>Industrial Project Report, CMP-6014Y, 40 credit module assessed by a project report.</p>				

AC2 <i>note AC2.1</i>	YEAR WEIGHTINGS AND PROGRESSION REQUIREMENTS (For undergraduate or integrated masters courses only)				
Please select only from the permitted options - see UG/PGT regulations					
Stage <i>Note AC2.2</i>	Level	Year of course	Weightings	Progression requirement	Exit Award <i>Note AC2.3</i>
Stage 0	Level 3	n/a	n/a	n/a	n/a
Stage 1	Level 4	1	n/a	40%	Cert HE
Stage 2	Level 5	2	0.4	40%	Dip HE
Year Abroad / in Industry		3	0	Pass	Dip HE
Stage 3	Level 6	4	0.6	40%	Dip HE
Stage M	Level 7	n/a	n/a	n/a	n/a

AC3	BOARD OF EXAMINERS				
AC3.1	Is there an existing Board of Examiners?	YES	√	NO	
AC3.2a	If YES, which existing board will be responsible for the course?	CMP			

AC3.2b	If NO, please enter details for new board of examiners				
	Are any new external examiner(s) required?	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
AC3.3b	If yes, how many?				

PS	PROGRAMME SPECIFICATION
<i>note</i> <i>PS</i>	This part of the form will serve a dual purpose. Please read the guidance note carefully before completing

PROGRAMME SPECIFICATION FOR AN AWARD OF THE UNIVERSITY OF EAST ANGLIA

Course name	Route code <i>note S2b</i>	Year
Computer Graphics, Imaging and Multimedia with a year in industry	TBA	2016

NOTE: Whilst the University will make every effort to offer the modules listed, changes may sometimes have to be made for reasons outside the University's control (e.g. illness of a member of staff) or because of low enrolment or sabbatical leave. Where this is the case, the University will endeavour to inform students.

PS1 COURSE PROFILE	<i>note PS1</i>
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YEAR 1 profile				Level	This column will be deleted prior to publication
				4	
Module Code (TBA if not known)	Compulsory? - or name of Option range	Credits	Module Title	Teaching period, eg Sem 1, Year-long	New / amended / existing
CMP-4008Y	Compulsory	20	Programming 1	YEAR-long	Existing
CMP-4011A	Compulsory	20	Web-based Programming	SEM1	Existing
CMP-4002B	Compulsory	20	Computing Principles	SEM2	Existing
CMP-4010B	Compulsory	20	Database Systems	SEM2	Existing
CMP-4004Y	Option range A (chosen based on maths background)	20	Mathematics for Computing A	Year-long	Existing
CMP-4005Y	Option Range A (chosen based on maths background)	20	Mathematics for Computing B	Year-long	Existing
AMAM4009A	Option Range B	20	Analysing Film	SEM1	Existing
AMAM4010A	Option Range B	20	Analysing Television	SEM1	Existing

PS1 COURSE PROFILE - continued*note PS1*

YEAR 2 profile				Level	This column will be deleted prior to publication
				5	
Module Code (TBA if not known)	Compulsory? - or name of Option range	Credits	Module Title	Teaching period, eg Sem 1, Year-long	New / amended / existing
CMP-5015Y	Compulsory	20	Programming 2	Year-long	Existing
CMP-5010B	Compulsory	20	Graphics 1	SEM2	Existing
CMP-5033A	Compulsory	20	Sound and Image 1	SEM1	Existing
AMAP5119B	Option range A	20	Television Studio Production	SEM2	Existing
AMAP5120A	Option range A	20	Television Studio Production	SEM1	Existing
AMAP5121A	Option range A	20	Introduction to Video Production	SEM1	Existing
AMAP5122B	Option range A	20	Introduction to Video Production	SEM2	Existing
CMP-5003A	Option range B	20	Systems Analysis	SEM1	Existing
CMP-5006A	Option range B	20	Further Mathematics	SEM1	Existing
CMP-5012B	Option range B	20	Software Engineering 1	SEM2	Existing
CMP-5013A	Option range B	20	Architectures and Operating Systems	SEM1	Existing

CMP-5014Y	Option range B	20	Data Structures and Algorithms	YEAR-LONG	Existing
CMP-5017B	Option range B	20	Applied Statistics A	SEM2	Existing
CMP-5027B	Option range B	20	Analogue and Digital Electronics	SEM2	Existing
AMAM5024A	Option range C	20	Animation	SEM1	Existing
AMAM5026A	Option range C	20	The Business of Film and Television	SEM1	Existing
AMAM5030A	Option range C	20	Film Theory	SEM1	Existing
AMAM5032B	Option range C	20	Popular Music	SEM2	Existing

PS1 COURSE PROFILE - <i>continued</i>	<i>note PS1</i>
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YEAR 3 profile				Level	This column will be deleted prior to publication
				5	
Module Code (TBA if not known)	Compulsory? - or name of Option range	Credits	Module Title	Teaching period, eg Sem 1, Year-long	New / amended / existing
CMP-6014Y	Compulsory	40	Industrial Project Report	Year-Long	Existing
CMP-6011Y	Compulsory	80	Year in industry	Year-long	Existing

PS1 COURSE PROFILE - <i>continued</i>	<i>note PS1</i>
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YEAR 4 profile				Level	This column will be deleted prior to publication
				6	
Module Code (TBA if not known)	Compulsory? - or name of Option range	Credits	Module Title	Teaching period, eg Sem 1, Year-long	New / amended / existing
CMP-6013Y	Compulsory	40	Computing Project	YEAR-LONG	Existing
CMP-6006A	Option range A	20	Graphics 2	SEM1	Existing
CMP-6009B	Option range A	20	Networks	SEM2	Existing
CMP-6026A	Option range A	20	Sound and Image 2	SEM1	Existing
CMP-6035B	Option range A	20	Computer Vision	SEM2	Existing
AMAM5018B	Option range B	20	Media Genres	Sem2	Existing
AMAM6067A	Option range B	20	Selling Spectacle	Sem1	Existing
AMAM6070A	Option range B	30	Creative Work in the media industries	Sem1	Existing
AMAP6025A	Option range B	30	Professional Video Production	Sem1	Existing
AMAP6026B	Option range B	30	Professional Video Production	Sem2	Existing
CMP-5012B	Option range B	20	Software Engineering 1	Sem2	Existing

CMP5013A	Option range B	20	Architectures and Operating Systems	Sem1	Existing
CMP-6006A	Option range B	20	Graphics 2	Sem1	Existing
CMP-6009B	Option range B	20	Networks	Sem2	Existing
CMP-6010B	Option range B	20	Software Engineering 2	Sem2	Existing
CMP-6021A	Option range B	10	Directed Study 1	Sem1	Existing
CMP-6022B	Option range B	10	Directed Study 2	Sem2	Existing
CMP-6026A	Option range B	20	Sound and Image 2	Sem1	Existing
CMP-6035B	Option range B	20	Computer Vision	Sem2	Existing
ENG-6001B	Option range B	20	Electricity Generation and Distribution	Sem2	Existing

PS2 MAPPING LEARNING OUTCOMES	<i>note PS2</i>
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Mapping learning outcomes – please list learning outcomes and enter module code against assessment type YEAR 1 learning outcomes	Assessment type								
	Essay	Lab report	Course test	Exam	Project/ Dissertation/ Report	Oral Presentation	Assessment of practice	Other	Other
To understand the principles of programming, including object-oriented programming and to gain competence in design, implementation, testing and evaluation of both software and hardware and in handling a variety of programming languages and environments.		CMP-4008Y		CMP-4008Y					
To be able to analyse film and television					AMAM4009A or AMAM4010A				
To gain an understanding of the mathematical and conceptual foundations of Computing Science and its application			CMP-4004Y or CMP-4005Y	CMP-4004Y or CMP-4005Y					
Other: please give details									

PS2 MAPPING LEARNING OUTCOMES - continued

note PS2

Mapping learning outcomes – please list learning outcomes and enter module code against assessment type YEAR 2 learning outcomes	Assessment type								
	Essay	Lab report	Course test	Exam	Project/ Dissertation/ Report	Oral Presentation	Assessment of practice	Other	Other
Develop an interactive graphics program using OpenGL					CMP-5010B				
To understand the nature of audio and video				CMP-5033A	CMP-5033A				
To gain further competence in design, implementation, testing and evaluation of both software and hardware and in handling a variety of programming languages and environments.				CMP-5015Y	CMP-5015Y				
Produce a film or video					AMAP5121A or AMAP5122A, AMAP5119A or AMAP5120A				
Other: please give details									

PS2 MAPPING LEARNING OUTCOMES - continued

note PS2

Mapping learning outcomes – please list learning outcomes and enter module code against assessment type YEAR 3 learning outcomes	Assessment type								
	Essay	Lab report	Course test	Exam	Project/ Dissertation/ Report	Oral Presentation	Assessment of practice	Other	Other
Understanding of contemporary computing science theory and practice and its power and limitations					CMP-6014Y, CMP-6011Y				
Mathematical and conceptual foundations of Computing Science and its application					CMP-6014Y, CMP-6011Y				
Competence in design, implementation, testing and evaluation of both software and hardware and in handling a variety of programming languages and environments					CMP-6014Y, CMP-6011Y				
Think and work independently and exercise own judgement;					CMP-6014Y, CMP-6011Y				
Work effectively as part of a team					CMP-6014Y, CMP-6011Y				
Retrieve and synthesise information from independent sources and present coherent intellectual arguments suitably referenced and formatted					CMP-6014Y, CMP-6011Y				
Communicate effectively by oral, written, and graphical means and present coherent and persuasive accounts/arguments in written and oral forms and as technical reports					CMP-6014Y,				

					CMP-6011Y				
Appreciate legal, social, ethical and professional issues, including the recognition and evaluation of the interplay between social and technological developments in computing science					CMP-6014Y, CMP-6011Y				
Appreciate how computing science theory and knowledge can be applied in a practical setting through spending at least 9 months working in an industrial setting									
Understand the role of computing science in an industrial setting									

PS2 MAPPING LEARNING OUTCOMES - continued

note PS2

Mapping learning outcomes – please list learning outcomes and enter module code against assessment type YEAR 4 learning outcomes	Assessment type								
	Essay	Lab report	Course test	Exam	Project/ Dissertation/ Report	Oral Presentation	Assessment of practice	Other	Other
To manage and implement a larger project in computer graphics, imaging, multimedia or any other computing science subject					CMP-6013Y				
To specialise further into advanced imaging, multimedia and computing subjects.				one of these CMP-6006A, CMP-6026A, , CMP-6009B	CMP-6013Y or one of these CMP-6006A, CMP-6026A, , CMP-6009B				
Other: please give details									

PS3 PROGRAMME COHERENCE AND FEEDBACK CYCLES		<i>note</i> <i>PS3</i>
PS3.1 learning progression		
How will progression in terms of skills, knowledge and understanding be reflected in the programme between modules in any one year and across the years as students progress through their course of study?		<i>note</i> <i>PS3.1</i>
<p>Modules build on the previous modules, i.e. learn the basics of programming in year 1 and then develop programming skills for graphics applications in year 2. Then develop advanced graphics programming skills in year 4.</p>		
PS3.2 feedback cycle		
Please explain how assessments and feedback / feed forward support the coherence of the programme. Comment on number and types of assessment, both formative and summative; the types and format of feedback students will receive; and their sequencing. How will assessments and feedback impact on subsequent modules?		<i>note</i> <i>PS3.2</i>
<p>The proposed course is a Year in Industry variant on an already existing course, i.e. Computing Science, Imaging and Multimedia (to be renamed to Computer Graphics, Imaging and Multimedia) and as such follows the same patterns of assessment. Since this is an undergraduate course, the majority of modules follow the standard CMP assessment patterns of 50/50 coursework/exam. AMA (Arts, Media and American Studies) modules on film studies and video production are an exception as they are essay and/or project based. The first year has 20 credits of AMA Modules, the second year 40 credits and the third/fourth year* may vary from 0 to 60 credits.</p> <p>* For the proposed Year in Industry variant. Feedback follows the general CMP feedback loop which includes project assistance throughout the academic year. In particular for Computer Graphics modules, which are a core part of the proposed course, the weekly formative feedback leads to improved performance and prepares the student for the next level (e.g. progression from Graphics I in Year 2 to Graphics II in Year 3 to Advanced Graphics in Year 3/4). AMA feedback follows similar progressions when video production projects are taken in the second year and again in the third year as a continuing development of studio and media production skills, which are a core part of this particular course.</p>		

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PS4	EXAMINATIONS		<i>note PS4</i>
	Written	Practical (e.g. OSCES and OSPES)	
How many modules will include an exam element?	13 (max)		
How many hours of exams are there in Stage 0? (if applicable)	N/A		
How many hours of exams are there in Stage 1?	6		
How many hours of exams are there in Stage 2?	12 (max)		
How many hours of exams are there in Stage 3?	-		
How many hours of exams are there in Stage 4? (if applicable)	8 (max)		
How many hours of exams are there in Stage 5? (if applicable)	-		
How many hours does the programme (as a whole) include?	26 (max)		

PS5	EQUALITY & WIDENING PARTICIPATION		<i>note PS5</i>
PS5.1	How do the admissions criteria specifically for this course ensure equality of opportunity for all applicants?		
	Admissions procedures, including any applicant interviewing, will follow the regulations and guidelines set by UEA. A range of outreach events are run annually. It is anticipated that these will continue.		
PS5.2	What steps have been taken to ensure an inclusive curriculum?		
	The programme is of relevance across all social, gender and ethnic populations and the curriculum is designed to be inclusive and appeal to all possible cohorts. This particular branch of computing science already attracts a higher proportion of women than other branches within the School's existing programmes and we expect this to continue on the Year in Industry variant.		
PS5.3	In what ways do learning and teaching and assessment methods ensure inclusivity, reasonable adjustment and equality of opportunity?		
	The School adopts a range of teaching methods from lectures to seminars to work to the strengths of students and ensure that all students are fully supported in their academic study.		

PS6	EMPLOYABILITY		<i>note PS6</i>
	How is employability embedded into the delivery of the course?		
	A number of CMP modules have slots for invited speakers from industry, including a number of past students. The cohort will be enrolled on the faculty Year in Industry module (black board site). The Year in Industry placement year incorporates real work experience and students will create CVs with extensive guidance during year 1		

	<p>and year 2 to obtain their placement. The students will also have access to all the opportunities promoted through CareersCentral. For 2014/15 this included programme specific activities as well as our more general careers support (drop in sessions).</p> <p>Practical and theoretical knowledge will be gained with module choice and we are aware that Computer/IT knowledge is a key skill requirement from employers in the 21st century.</p>
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AC4	MODULE OUTLINES FOR EXISTING COMPULSORY MODULES			
<i>note</i> AC4	Number of existing COMPULSORY modules	10		
	Module outlines attached? (as Appendix 1 to this form)	YES	<input checked="" type="checkbox"/>	NO

AC5	MINOR CHANGES TO EXISTING MODULES	
<i>note</i> AC5	Please list all existing modules, compulsory and optional, to which you are proposing minor changes	
Module Code	Module Title	Minor changes proposed
None proposed		

AC6	NEW MODULES	
<i>note</i> AC6	How many new modules are being proposed?	0
Please complete a table AC6.x for each proposed new module		

AC6.1	NEW MODULE			
Module Title				
Level				
Credit Value				
Teaching period, eg Semester 1, Year-long				
Likely Module Organiser				
Module Type (eg EX/CW/WW/PR etc)				
Does the Module include an Exam? Yes/No		How long will the exam be? (ie 1, 2 3 hours)		
Module Marking Scheme (Please tick as appropriate)	Pass/Fail?		Percentage marking?	

Proposed Module Code	
Module Delivery (eg distance-learning campus based, work placement)	
Brief Description	
Aims / learning outcomes	
Key Reading (2-5 key texts or resources for targeted Library expenditure/purchase)	

****Please copy and paste the above table for additional new modules****

AC 7 <i>note</i> AC7	DEFINED CHOICE
How do you envisage 'Defined Choice' working for the course in question? Please specify, for each year of the course, defined choice within the 3 categories of: <ul style="list-style-type: none"> • Programme-specific choice • Enrichment and Employment modules (EEC) • Language choice 	
N/A	

AC8 <i>note</i> AC8	JOINT COURSES		
	Is the proposed course is a joint course?	YES	
		NO	X
	If YES, how will the student experience be managed?		

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AC9	COMMENTS/FEEDBACK FROM EXTERNAL PROFESSIONALS/BODIES
<i>note</i> AC9	Please provide a summary of external professional feedback received. Append full reports as Appendix 2
<i>note</i> AC9	Please provide a summary of Professional, Statutory or Regulatory Body (PSRB) approval, if appropriate. Append any relevant documents as Appendix 3

AC10	COMMENTS ON ACADEMIC CASE AND PROGRAMME SPECIFICATION	
COMPLETION OF THIS SECTION TO BE COORDINATED BY LEARNING AND TEACHING SERVICE (LTS) COORDINATOR		
<i>note</i> AC10	Please circulate Parts 1, 3 & 4 to the following for their additional comments (if any). Comments to be returned to proposer within 10 working days.	
	NB these comments should focus on the <i>ACADEMIC CONTENT</i> of the proposal	
Date of circulation:	09.03.15	
AC10.1	Careers Manager (CCEN)	
The involvement of Employers, professionals from industry and the Career Service is very welcome within the proposed teaching.		

AC10.2	Learning & Teaching Service (LTS) Manager (UG or PGT, as appropriate)
On what basis is the 80 credits awarded and what are the actual requirements of the 40 credit project. How do the two fit together? What happens if the students fail one or other element?	
AC10.3	Equality & Diversity Manager (PPE)
None received.	


AC11	PROPOSER'S RESPONSE TO COMMENTS IN AC9 & AC10 ABOVE
<i>note</i> AC11	<p>Year in Industry, CMP-6011Y, 80 credits, requires the students to submit bullet-point style reports on a bi-monthly basis using a one page template, summarising the work-related activities they have been undertaking. The student's line-manager is required to sign the forms to acknowledge attendance in the workplace and factual accuracy but does not assess the report in any way.</p> <p>Industrial Project Report, CMP-6014Y, 40 credit module assessed by a project report. The assignment involves writing a concise report that should be no longer than 10 sides of A4. The report should describe the work the student undertook during the placement year and builds upon the bi-monthly reports the students submitted throughout their placements for the Year in Industry module.</p> <p>If a student were to fail either module then they would fail the year, would not progress to the final year of the Year in Industry degree. However, they would be offered the opportunity to transfer to the 3-year version of their degree course</p>

FULL COURSE PROPOSAL**Part 4 KEY INFORMATION SET (KIS) DATA**

KIS	KEY INFORMATION SET data (undergraduate courses only)						<i>Note KIS</i>
KIS1	Quantitative KIS data						<i>Note KIS1</i>
		Year 1	Year 2	Year 3	Year 4	Year 5	
1.1	Percentage of assessment by written exams	47	47		27		
1.2	Percentage of assessment by practical exams						
1.3	Percentage of assessment by coursework	53	53		73		
1.4	Percentage of time in scheduled learning and teaching activities	48	48		45		
1.5	Percentage of time in guided independent study						
1.6	Percentage of time on placements			100			
KIS2	Professional Accreditation						<i>Note KIS2</i>
2.1	Name of accrediting body (if applicable)						
	BCS – The Chartered Institute for IT						
2.2	Please give details, including any memberships, exemptions etc that the award confers. Please also give accrediting body website URL.						
	www.bcs.org						
2.3	Is the accreditation dependent on specific module choices? If so, please include URL of web pages where these details are outlined.						
	No						

FULL COURSE PROPOSAL**Part 5 APPROVALS AND NOTIFICATION****APPROVALS***Note AP*

THIS SECTION WILL BE COORDINATED BY THE SECRETARY TO YOUR FACULTY TEACHING AND LEARNING QUALITY COMMITTEE (FLTQC)				
AP1	APPROVAL OF THE BUSINESS CASE			
	APPROVAL/SIGNATURES	Name	Signature/ evidence of approval	Date
AP1.1	School Director of Learning, Teaching and Quality		<p>From: Geoffrey Mckeown (CMP) Sent: Monday, April 20, 2015 9:52 AM To: Carole Bull (LTS) Subject: RE: Computer Graphics Yr in Ind. Course Proposal - comments</p> <p>Sorry for the delay Carole,</p> <p>This proposal is OK by me.</p> <p>Geoff</p>	20/04/15
AP1.2	Head of School (on behalf of School Board)		<p>From: Vincent Moulton [mailto:vincent.moulton@cmp.uea.ac.uk] Sent: Friday, April 17, 2015 11:43 AM To: Carole Bull (LTS) Cc: Geoffrey Mckeown (CMP) Subject: Re: FW: Computer Graphics Yr in Ind. Course Proposal - comments</p> <p>Dear Carole thank you for your email I approve this. Many thanks, and apologies for the delay Best wishes Vincent</p>	17/04/15

AP1.3	Dean of Faculty (on behalf of Faculty Executive)	Philip Gilmartin		14/4/2015
AP1.4	LTC (if relevant)			
AP1.5	Council (if relevant)			
AP1.6	Reasons for approval being withheld (and by whom)			

AP2	APPROVAL OF THE ACADEMIC CASE			
AP2.1	Head of School	Name	Signature	Date
	Approved:		From: Vincent Moulton [mailto:vincent.moulton@cmp.uea.ac.uk] Sent: Friday, April 17, 2015 11:43 AM To: Carole Bull (LTS) Cc: Geoffrey Mckeown (CMP) Subject: Re: FW: Computer Graphics Yr in Ind. Course Proposal - comments Dear Carole thank you for your email I approve this. Many thanks, and apologies for the delay Best wishes Vincent	17/04/15
	Approved with amendments:			
	Rejected:			
	Comments (if any):			
AP2.2	Faculty Associate Dean (for Faculty LTQC)	Name	Signature	Date

	Approved:		<p>From: Ben Milner (CMP) Sent: Thursday, April 30, 2015 10:22 AM To: Geoffrey Mckeown (CMP) Cc: Carole Bull (LTS); Rudy Lapeer (CMP) Subject: Comments on CMP CGIM with YinI</p> <p>Geoff,</p> <p>These are my comments on the course proposal. They are minor. Once these are done it is approved by SCI LTQC.</p> <p>Ben.</p>	
	Approved with amendments:		Amendments received	06/05/15
	Rejected:			
	Comments (if any):			
AP2.3	PVC Academic (for LTC)	Name	Signature	Date
	Approved:			
	Approved with amendments:			
	Rejected:			
	Comments (if any):			
Where applicable:				
AP2.4	Secretary to Council	Name	Signature	Date
	Approved:			

	Approved with amendments:			
	Rejected:			
	Comments (if any):			

FULL COURSE PROPOSAL

<i>Note N1</i>				NOTIFICATION OF APPROVAL	
This section should be completed by Faculty FLTQC Secretary once a course proposal has been approved. Its purpose is to ensure that relevant Offices are informed of the approval of course proposals (new courses and course amendments), in accordance with the procedures for course approval.					
FACULTY				SCHOOL	
NEW COURSE?	Y	N	If NO, please enter existing course code		
DEGREE AWARD (e.g. BSc/MA)					
TITLE OF PROGRAMME					
START DATE				LENGTH OF COURSE	
Course Approved by:		Name of Committee Chair		Date of approval	
Faculty Learning and Teaching Quality Committee (FLTQC)					
Learning and Teaching Committee (LTC)					
RELEVANT OFFICE INFORMED? *insert date					
Planning Office	Admissions and Marketing		Learning and Teaching Service		Union of UEA Students
*	*		*		*
sis.records@uea.ac.uk	arm.operations@uea.ac.uk		Email the LTS coordinator responsible for the course		union.academic@uea.ac.uk

<i>Note N1</i>		IMPLEMENTATION ACTIONS	
COURSE NAME		NEW ROUTE CODE	
ACTION		DATE	
COURSE INFORMATION LIVE IN ADMISSIONS			
PROGRAMME SPECIFICATION UPLOADED ONTO WEBSITE			
COURSE PROFILE UPLOADED ONTO SITS			
COURSE CLOSURES COMMENCED (where appropriate)			

Appendix – Existing compulsory modules (note AC6)

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CMP-4008Y, PROGRAMMING 1

Academic Session	2014/5
Period	YEAR
Occ.	A
Slot	A1*A2,D3*C4/B5*B6
Credit Value	20
School	Computing Sciences
Actual (Target)	92 (120)
Module Organiser	Dr Geoffrey McKeown
Assessment	Examination with Coursework or Project

Module Description

The purpose of the module is to give the student a solid grounding in the essential features of object-oriented computer programming using the Java programming language. The module is designed to meet the needs of a student who has not previously studied programming, although it is recognised that many will in fact have done so in some measure. On completing this module the student should be capable of developing, testing and documenting simple but non-trivial object-oriented programs, and of using the appropriate technical terminology in discussing these programs.

CMP-4011A, WEB-BASED PROGRAMMING

Academic Session	2014/5
Period	SEM1
Occ.	A
Slot	C1*C3,D5*D6*D7*D8/D1*D2*A3*B4
Credit Value	20
School	Computing Sciences

Actual (Target)	115 (121)
Module Organiser	Dr Graeme Richards
Assessment	Examination with Coursework or Project

Module Description

The Internet and the World Wide Web are ubiquitous in much of the world. This module introduces some of the tools used for web development. Students will then build a substantial dynamic web site using HTML, CSS and Python. An understanding of the underlying mechanisms of the technologies used in the Internet and World Wide Web is essential for any computing science student. The latter part of the module explains these technologies and takes a practical approach to exploring them. Issues of information systems security are considered at all stages but also in dedicated sessions. The final element of the module considers multi-media issues in web based systems.

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CMP-4002B, COMPUTING PRINCIPLES

Academic Session	2014/5
Period	SEM2
Occ.	B
Slot	D1*D2*E1,A3/B4
Credit Value	20
School	Computing Sciences
Actual (Target)	87 (100)
Module Organiser	Dr Pierre Chardaire
Assessment	Examination with Coursework or Project

Module Description

The module introduces key concepts in discrete mathematics, logic and statistical analysis essential for any degree in computing.

Module Assessment Pattern

Seq	Type	Share	Assessment Title
001	CT	40	Electronic Tests
002	EXSTD	60	Examination Standard
FM1	FRM	0	Formative assignment

CMP-4010B, DATABASE SYSTEMS

Academic Session	2014/5
Period	SEM2
Occ.	B
Slot	C1*C2,D4/D7/D8,D5*D6/D7*D8
Credit Value	20
School	Computing Sciences
Actual (Target)	86 (90)
Module Organiser	Dr Beatriz De La Iglesia
Assessment	Examination with Coursework or Project

Module Description

This module introduces most aspects of databases, database manipulation and database management systems. The module is based on the relational model. The students will explore the tools and methods for database design and manipulation as well as the programming of database applications. Part of the practical experience gained will be acquired using a modern relational database management system. Students will also gain programming experience using SQL, and using a high level programming language to write applications that access the database

CMP-5015Y, PROGRAMMING 2

Academic Session	2014/5
Period	YEAR
Occ.	A

Slot	E1*E2,E3*A4/A5*A6
Credit Value	20
School	Computing Sciences
Actual (Target)	80 (100)
Module Organiser	Dr Tony Bagnall
Assessment	Examination with Coursework or Project

Module Description

This is a compulsory module for all computing students and is a continuation of CMP-4008Y. It contains greater breadth and depth and provides students with the range of skills needed for many of their subsequent modules. We recap Java and deepen your understanding of the language by teaching topics such as threads, nested classes, generics, reflection and threaded programming. We then introduce C in order to improve your low level understanding of how programming works, before moving on to C++ in semester 2. We conclude by introducing C# to highlight the similarities and differences between languages

CMP-5010B, GRAPHICS 1

Academic Session	2014/5
Period	SEM2
Occ.	B
Slot	B1*B2*B6,B3*E4/B7*B8
Credit Value	20
School	Computing Sciences
Actual (Target)	47 (84)
Module Organiser	Dr Rudy Lapeer
Assessment	Examination with Coursework or Project

Module Description

Graphics 1 provides an introduction to the fundamentals of computer graphics for all computing students. It aims to provide a strong foundation for students wishing to study graphics, focusing on 2D graphics, algorithms and interaction. The module requires a good background in programming. OpenGL is utilised as the graphics API with examples provided in the lectures and supported in the laboratory classes. Other topics covered

include transformations, texture mapping, collision detection, graphics hardware, fonts, algorithms for line drawing, polygon filling, clipping and colour.

CMP-5033A, SOUND AND IMAGE 1

Academic Session	2014/5
Period	SEM1
Occ.	A
Slot	C1*C2,A2,D5*D6/D7*D8/D3*C4
Credit Value	20
School	Computing Sciences
Actual (Target)	59 (62)
Module Organiser	Professor Stephen Cox
Assessment	Examination with Coursework or Project

Module Description

There has recently been a huge growth in the power and sophistication of tools that enable us to manipulate images and sounds on computers. In this module, we study how audio and video signals generated by cameras and microphones are captured and represented on a computer, and then how they can be analysed in order to extract information or to compress them for efficient storage and transmission. Our study includes the coverage of topics such as sampling, time, spatial and frequency domains, filtering, Fourier representation etc., and also practical work on processing sounds and images to e.g. modify speech sounds or filter an image. Assignments in this module are done using the MATLAB programming language, which is introduced progressively: some familiarity with programming concepts is preferred, although these can be developed during the module.

CMP-6013Y, COMPUTING PROJECT

Academic Session	2014/5
Period	YEAR
Occ.	A
Slot	B7*B8
Credit Value	40
School	Computing Sciences

Actual (Target)	0 (140)
Module Organiser	Dr Pierre Chardaire
Assessment	Project

Module Description

This module will give you experience of independent project work and, via the lecture programme, will provide a primer on the law, ethical and professional behaviour, project management, reporting and other aspects of being a computer scientist. You will be allocated a supervisor and will be expected to work closely with him or her on a mutually agreed project. The project choice will normally take place in the summer preceding the module and will be based around a list of approved projects provided by members of Faculty and, occasionally, external customers. If you want to work on your own project then this may be possible but you should discuss this with the module organiser at an early stage.

CMP-6011Y, YEAR IN INDUSTRY

Academic Session	2014/5
Period	YEAR
Occ.	A
Slot	U
Credit Value	80
School	Computing Sciences
Actual (Target)	0 (30)
Module Organiser	Dr Mark Fisher
Assessment	Project

Module Description

This module is for students who are enrolled on undergraduate programmes that combine academic study with an opportunity to gain experience by working for a year in industry.

CMP-6014Y, INDUSTRIAL PROJECT REPORT

Academic Session	2014/5
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Period	YEAR
Occ.	A
Slot	U
Credit Value	40
School	Computing Sciences
Actual (Target)	0 (30)
Module Organiser	Dr Ben Milner
Assessment	Project

Module Description

This module provides an opportunity for students to undertake individual project work during their industrial training placement.