BTEC Higher Nationals in Computing 2016-18

Dr Derek Peacock & Sampson Aneke

Oaklands College

Induction 2016

- Course Aims and Features
- Course Structure
- Assessment
- Support
- Software
- Enrolment

Course Aims: to promote

- Independent life long learning and self discipline
- Understanding and enthusiasm for computing
- Academic and vocational outcomes
- Logical, reflective, creative and critical thinking
- View computing in a broad context
- Positive approach to learning technologies
- A range of graduate level skills

Course Features

- Choice of Web or Games Development
- Team based projects and individual work
- Assessments that integrate unit outcomes in a way similar to real job situations
- In depth focus on software development (OO)
- Maximum use of leading professional software
- Focus and practical skills and understanding

HNC Schedule 2016

	HNC Computing Year 1			HNC Computing Year 2	
	Tuesday	Thursday	Monday		Wednesday
Semester 1	**Unit 1 Core** Business Skills for e-Commerce				**Unit 10** Human Computer Interaction
Semester 1	**Unit 3 Core** Professional Development				**Unit 14** Website Design
Semester 2	**Unit 2 Core** Computer Systems				**Unit 17/33** Database Analysis & Design
Semester 2	**Unit 20** Event Driven Programming				**Unit 21** Software Applications Testing

HND Schedule 2016

	HND Computing Year 1		HND Computing Year 2	
	Tuesday	**Thursday**	**Tuesday**	**Thursday**
Semester 1	Unit 1 Core	Unit 10	Unit 4 Core	Unit 19
	Business Skills for e-Commerce	Human Computer Interaction	Game Project/Web Project	OO Programming
	Unit 3 Core	Unit 14	Unit 8	Unit 41
	Professional Development	Website Design	Project Management	Java Programming
Semester 2	Unit 2 Core	Unit 17/33	Unit 38	Unit 35
	Computer Systems	Database Analysis & Design	3D Modelling and Animation	Web Applications Development
	Unit 20	Unit 21	Unit 39	Unit 42
	Event Driven Programming	Software Applications Testing	Games Design and Develop	Programming in .NET

HNC Comp – Core Units

* Unit 1: E-Commerce

* Unit 2: Computer Systems

* Unit 3: Professional Development

Value = 45

HND Computing - Core Units

- HNC Core Units +
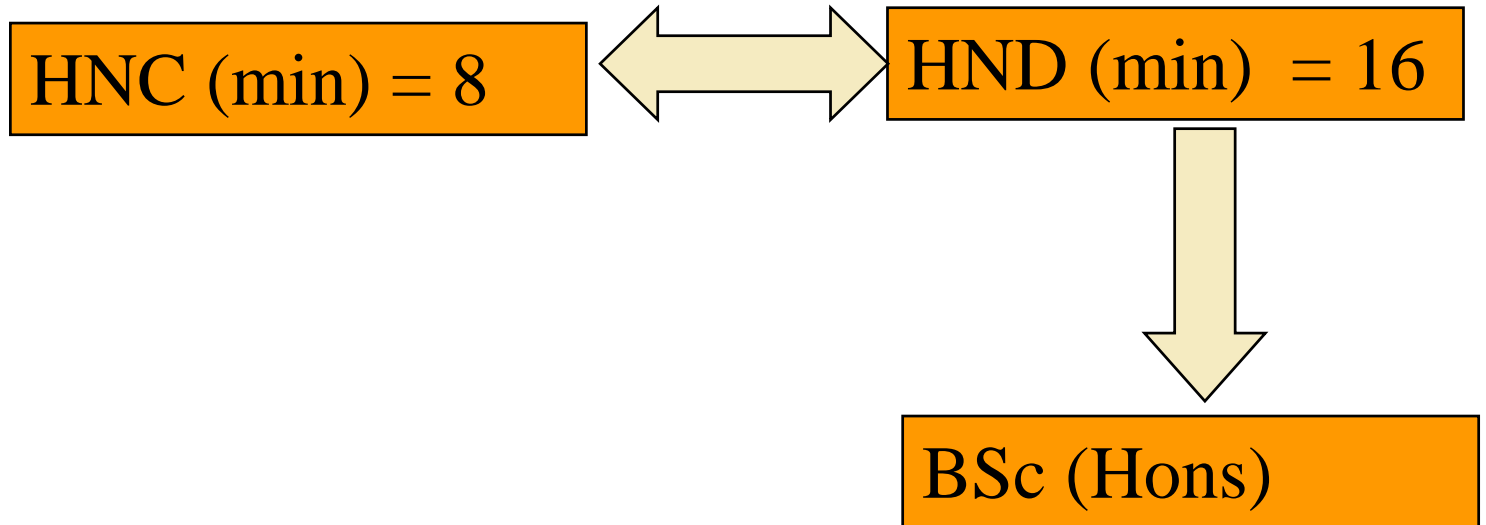
- Unit 4: Project

Value = 60

Optional Units

- Unit 10: HCI
- Unit 14: Website Design
- Unit 17: Data Analysis & Design
- Unit 33: Database Design
- Unit 20: Event Driven Programming
- Unit 42: Programming in .NET
- Unit 8: Project Management
- Unit 19: Object Oriented Programming
- Unit 41: Java Programming

HNC = 8 Units

HND = 16 Units

Progression

HNC (min) = 8 ⟷ HND (min) = 16

BSc (Hons)

FOR MORE INFO...

"BTEC Higher Nationals in Computing"
Edexcel Publications (2010)

Project Based Assessment

- Each Project has Planned Milestones (Assessment Deadlines)

- Late submission – will not achieve M & D

- Extensions formally requested in advance

- Attendance must be >80%

- Indicative Grades subject to exam board approval

Assessment Evidence

- Based on Specified Deliverables

- Deliverables
  - Self Assessed
  - Peer Assessed
  - Tutor Assessed

Internal & External Verification

- Project Briefs
- Awarded Grades
- E-Portfolio of Evidence
- Examiners Meeting
- Appeals Procedure

BTEC Grades – Quality Standards

- Distinction (D1, D2 & D3)
- Merit (M1, M2, & M3)
- Pass
- Referred

Generic Grading Criteria

Merit	Distinction
In order to achieve a merit the student must:	In order to achieve a distinction the student must:
1. Identify and apply strategies to find appropriate solutions 2. Select, design and apply appropriate methods/techniques 3. Present and communicate appropriate findings	1. Use critical reflection to evaluate own work and justify valid conclusions 2. Take responsibilities to managing and organising activities 3. Demonstrate convergent lateral and creative thinking

Personal Support

- Dr Derek Peacock
  - All Administration or Course Issues
  - email, in sessions, in break time, phone
- Tutors
  - Academic advice
- Tutorials
  - Personal and Professional Development

Contacts

Programme Manager

Dr Derek Peacock

– derek.peacock@oaklands.ac.uk

ICT Department

Head: Raj Dhillon

– raj.dhillon@ oaklands.ac.uk

Contacts cont

Tutors

* Sampson Aneke

  – sampson.aneke@ oaklands.ac.uk

Software Required

- Windows 7/10
- MS Office 2016
- MS Project 2016
- Visual Studio 2015
- Git Extensions
- SQL Server 2014
- Access 2016

- Visual Paradigm 13.1
- Allway Sync
- Adobe Acrobat
- WinZip

Useful Books

- "Schaum's Outlines UML", (2004), Simon Bennet, McGraw Hill from £11

- OO Systems Analysis using UML, (2010), Simon Bennet et al, McGraw Hill, £47 (£10 used)

- ASP.NET 4.5.1 in C#, (2014) Imar Spaanjaars, Wrox from £19

- "Black Art of java Games Programming" (2002) Amazon from £2.11

Useful Web Sites

- qualifications.pearson.com
- microsoft.com
- adobe.com
- visual-paradigm.com

- www.teamwork.com
- www.bitbucket.org
- www.moqups.com
- www.asp.net

- Intranet
- www.oaklands.ac.uk

- Internet
- valerianweb.com/tutor