



UPCOMING DATES

9th December	Mock Exams Continue
10th December	College Closes at 2pm for Staff Training
12th December	Cyber Discovery Trip at Salford Quays
13th December	Year 10 and Year 11 SMSC Drop Down Day
18th December	Project Based Learning Day
20th December	Last Day of Term & Christmas Jumper Day

PAT SESSIONS

	Year 10
Monday	Drop Everything & Read
Tuesday	Applying for Work Experience
Wednesday	Register, Read, Response
Thursday	360 Reviews with Students
Friday	SMSC Drop Down Day

	Year 11
Monday	Mock Exams
Tuesday	Mock Exams
Wednesday	Mock Exams
Thursday	Mock Exams
Friday	SMSC Drop Down Day

	Year 12	Year 13
SMSC	360 Appraisal Reviews with Students	360 Appraisal Reviews with Students
Friday Assembly	360 Appraisal Reviews with Students	360 Appraisal Reviews with Students

WORD OF THE WEEK

Meter, Metr: measure

Geometry – part of maths involving the properties and relationships of lines, angles, curves, and shapes.

Symmetry – exactly similar parts facing each other (or around an axis); correct or pleasing proportion; both sides giving/receiving equally.

Hint: sym/syn means together (remember synchronised swimming?)

Barometer – an instrument that measures air pressure and shows when the weather is going to change.

UTC MINIBUS

Please note that the college minibus will not run on the **afternoon of Tuesday 10th December** due to staff training and on the **morning and afternoon of Friday 20th December**. We are also keeping a close eye on the winter weather forecast. If the weather turns to snow and ice we will be unable to operate the minibus due to health and safety. We will communicate with you should this forecast arise.

SUBJECT ON A PAGE

We will be sharing a subject summary for our courses over the coming weeks. Scroll down to find out more about our BTEC Level 3 Cyber/Computing qualification.

CYBER SECURITY DRIVES NEW TALENT

There are nearly 3 million people working in cyber security worldwide, according to the 2019 (ISC)2 Cyber Security Workforce study. The UK has around 289,000 people whose job includes security responsibilities but another 4 million people are needed to tackle a skills shortage and to fill current and future roles. Whilst the industry has grown at very quick speeds, there are still few A Level and BTEC routes that lead to a career in cyber. Employer partners of UTC Warrington, including Sellafield and Fujitsu, have helped develop our cyber pathway which focuses on real life projects and sector-specific qualifications that will give students the competitive edge when entering the industry. One report found that UK businesses faced an average of around 146,000 attempted attacks between April and June this year – one every 50 seconds.

Excellence & Kindness

DROP DOWN DAY - FRIDAY 13TH DECEMBER

Next Friday (13.12.19) is a drop down day for Key Stage 4 students. This means that students will be off timetable all day. They will be following a programme based on the following topics:

- Year 10 - Staying Safe
- Year 11 - Aspects of Adult Life

CHRISTMAS CHARITY APPEAL

Every year at Christmas, UTC Warrington like to support a local charity. Last year our students/parents/teachers supported the Warrington Womens Aid - a charity that supports anyone living in Warrington who is experiencing domestic violence. UTC Warrington are supporting this charity again this festive season.

We would like your support in donating some of the following items:

- Soaps;
- Pyjamas- sizes 10-12, 12-14,14-6 and childrens/boys and girls/new born;
- Toys appropriate for girls aged 5-9 .and boys aged 1-5.

All gifts can be left in reception for the care and attention of Mr Varey. Thank you for your support.

INSPIRATIONAL LESSONS AT UTCW

A quick walk around UTC Warrington brings you to some very inspiring lessons. Mr Twist's practical session involved reacting sulfuric acid with copper oxide to form copper sulfate crystals. We are fortunate to have such a high calibre and passionate staff team who deliver engaging practical and technical lessons everyday!

Thank you to our friends at Warrington Youth Club who are continuing to deliver our NCS programme to Year 12 students; the team have also been supporting our PE lessons with access to their town centre gym.



FUJITSU DAY TRIP

Key Stage 4 and Key Stage 5 cyber students visited Fujitsu this week (05.12.19) for a day visit to their cyber security base in Warrington. The day was an introduction to cyber security and included a tour of their threat control room and a number of lectures from those on the job, including apprentices and cyber security engineers.

Fujitsu will be back in the New Year to deliver a number of practical workshops to our cyber students, as part of the UTC Cyber Group and shaping their future talent.



CHRISTMAS VIDEO

It's that festive time of year where the entire UTC team, including staff and students, create a video to celebrate Christmas. This year, the chosen song is: **Shakin' Stevens, Merry Christmas Everyone**. We will be around with the camera all next week so please take part in a little bit of fun to celebrate the end of year. [You can watch the 2018 Christmas video online by clicking here.](#)

APPRENTICES SUPPORT STUDENTS

Thank you to Alex and Josh from Sellafield who came in to deliver a guest lecture to our Year 12 and Year 13 students about careers in nuclear engineering, apprenticeships and work placements.



MOCK EXAMS

Pre-public examinations continue next week for Year 11 & 13 students. It is important to take these exams seriously as they will provide us with an indication of progress and what we can do to support students before the real exams in May/June. Please check the timetable and ensure you bring the correct equipment to all exams.

DECEMBER	MONDAY 2nd	TUESDAY 3rd	WEDNESDAY 4th	THURSDAY 5th	FRIDAY 6th
AM P1 and 2 Exams Start at 8.50am Unless otherwise stated	English Language Paper 1 (1hr 45) All year 11	English Literature Paper 1 (1hr 45) <i>All B side +14 students from A side</i>	Maths Paper 1 (1hr 30) All year 11	Maths Paper 2 (1hr 30) All year 11	Maths Paper 3 (1hr 30) All year 11
AM P3 and 4 Exams start at 11.10am	Biology Paper 1 (1hr 15) All year 11	Chemistry Paper 1 (1hr 15) All year 11	Comp Science (1hr 30)-11g/cs1 I Media (1hr 15)-11g/cs2 Geography Paper 1 (1hr 30)-11g/11b/gg1		Physics A level Paper 1 (2hr) Art (11h/ar1) Room 310 Start Period 3(12-2)
PM P5 and 6 Exams start at 1.10pm Unless otherwise stated		Art (11h/ar1) Room 310		Business Studies (1hr 30)-11ab/bs1 Astronomy (1hr 45)-11ab/as1	
DECEMBER	MONDAY 9th	TUESDAY 10th	WEDNESDAY 11th	THURSDAY 12th	FRIDAY 13th
AM P1 and 2 Exams start at 8.50 am	English Literature Paper 2 (2hr 15) <i>All B side +14 students from A side</i>	Physics Paper 1 (1hr15) All year 11	English Language Paper 2 (1hr 45) All year 11	Geography Paper 2 (1hr 15) 11g/11b/gg1)	DROP DOWN DAY YEAR 11
AM P3 and 4 Exams start at 11.10am		Art (11h/ar1) Room 310 Computer Science A level (2hr 30)	Engineering Design (1hr) 11ab/ed1,2/11b/ed1/11h/ed1	Manufacturing (1hr) 11a/mn1,2,3/11b/mn1,2	Physics A level Paper 2 (2hr) Start Period 3(12-2)
PM P5 and 6 Exams start at 1.10pm Unless otherwise stated	Sport (1hr)-11g/pe1 Systems & Control (1hr)-11ab/sy1 <i>Period 5 start 2pm</i>	Art (11h/ar1) Room 310		ICT (1hr 30) 11h/it1	

Be Exam Ready

What you can take in with you...



- A black pen - and maybe a couple of spares, just in case.
- Additional equipment - a rubber, a pencil, a ruler & a scientific calculator for specific papers.
- A clear pencil case
- A water bottle - all labels must be removed. Energy drinks are not allowed.
- A wrist watch - No smart watches allowed.

Exam Techniques...

If you feel you've forgotten everything, it may be just nerves. Take a few deep breaths to help you stay calm.

Read the instructions; make sure you know how many questions to answer.

If you can't answer a question, move on to the next question and come back later.

Take your time, read all the questions carefully until you understand exactly what is needed.

Look for the command words. Identify key words before you answer the question.

Use your answer book to brainstorm and mind-map content or ideas as you go. This will also help jog your memory if you 'draw a blank'.

Use the allocated marks to guide how much time you spend on each answer.

5 Key Qualities of Exam Resilient Students at UTC Warrington

1 Arrive on Time

In fact, if you can, get there early. There will be free breakfast, snacks and water provided and your teachers will be available for pre-exam meet ups

2 Be Prepared

Make sure you bring all the equipment that you need including a calculator. Prepare your revision in manageable chunks so that you are relaxed on the day and make sure you eat well and have a good night's sleep the day before. Check the seating plan so you know where to go

3 Maintain Examination Conditions

The JCQ stipulates clear guidance that all students must follow or they risk being disqualified from examinations so practise these now and get used to them. They include the handing in of mobile phones and electronic devices and no talking or communication once in the examination room

4 Attempt 100% of the Examination

Do not give up! Even when you find something challenging, have a go at it, do not waste any time or leave out any questions

5 Display a Positive Attitude and a Growth Mindset

All we can ever ask of you is that you try your best. Challenge yourself and try to see these challenges as an opportunity to improve and develop. The way you think and talk about yourself will directly impact how well you achieve - so read our 'Growth Mindset' tips and challenge your inner voice!

COMPUTING



Course Title:	BTEC L3 Computing	Course Code:	601/7342/7
Exam Board:	Edexcel	Course Length:	2 years

Units Covered:

- Principles of Computer Science
- Fundamentals of Computer Systems
- IT Systems, Security and Encryption
- Business Applications of Social Media
- The Impact of Computing
- Relational Database Development
- Planning and Management of Computing Projects
- Software Design and Development Projects
- Object Oriented Programming
- Computer Networking
- Virtualisation
- Systems Analysis and Design
- Digital Graphics and Animation

PROGRESSION

Students who gain a BTEC Extended Diploma in Computing are generally well regarded by companies and apprenticeship providers as they will have both good theoretical knowledge and evidence of developing practical skills. If the course is combined with an A-Level in Mathematics, students can progress into studying Computer Science at university. This subject can lead to careers in: Cyber Security, Software Engineering, Games Development, IT Administrator, Project Management, Robotics.

HOW AM I ASSESSED?

- The course is split into modules with each module being assessed upon completion. Therefore there will be multiple assessment points throughout the year.
- There are four external assessment modules and these will be assessed in either February or May of each year.
- The attained grades for each module will be combined to give an overall grade for the course.

HOW TO BE SUCCESSFUL?

- Complete all units of work within the set time frame.
- Undertake background reading around the subject to build up generally computer science knowledge.
- Practise programming on a regular basis to ensure knowledge in place for the examinations.

6 X NATIONAL
AVERAGE

HIGH QUALITY STEM
APPRENTICESHIP

WHY CYBER?

The UK Cyber Security Market is regarded as the largest in Europe and an increase in cybercrime threats has led to an increase on cyber security spending in the public and private sectors. The cost of cybercrime is estimated to cost the UK \$30bn per year.