

Great Computer Challenge

ABOUT THE GCC

What it? The GCC is a competitive opportunity for students to demonstrate their skills in various computer applications and programming. **Who may enter?** Each school may enter only one team in each category, except for the following categories: Music Composition, Object-Oriented Business Programming, Integrated Applications, Scientific/Non-Business Programming and CAD.

CONTEST LEVELS

Level 1 - Grades K-2

Level 2 - Grades 3-5

Level 3 - Grades 6-8

Level 4 - Grades 9-12

The highest-grade student on a team determines the level.

REGISTRATION FEE (per team)

	C.I.I. Member	C.I.I. Service Participant
Level 1-3	\$45	\$85
Level 4	\$55	\$95

GENERAL INFORMATION

Teams

Teams in Levels 1-3 may have up to three members. Level 4 teams may have up to five members. **Each team must have a teacher coach, who must be present, but not be in the room during the actual competition.** It is strongly recommended that teachers who are bringing multiple teams bring another adult to assist.

Equipment

Each team will be provided with a table, chairs, and access to electrical power. Each team must supply all other equipment and supplies needed for the competition, including computer, software, power strips, extension cords, all connecting cables, external storage, and paper/pencil. **Printers are not needed.**

INTERNET DETAILS: Graphic Design (Level 2), Desktop Publishing, Desktop Presentations, and Web Design-Wireless capability is optional to access additional clipart, use web or server based software, or to download sponsor logos (WHRO, ODU, C.I.I., Bay Diesel). Internet Scavenger Hunt will have computers, printer and Internet provided by ODU. Cyber Security teams need computer with airmon compatible wireless adapter. All other categories are prohibited from using the internet during the competition.

Judging

THE DECISION OF THE JUDGES IS FINAL.

All contestants in Level 1 categories will be awarded Superior, Excellent, or Good. For Levels 2-4, medals will be awarded to each contestant on the First, Second, and Third Place teams. Plaques will be awarded to the First, Second, and Third Place schools. For Level 4, a three-foot traveling trophy will be awarded to the First Place school in each category. Ribbons will be awarded to each contestant on teams awarded Honorable Mention. Note: All places (First, Second, Third, and Honorable Mention) may not all be awarded based on the discretion of the judges.

CATEGORY INFORMATION

***MORE THAN ONE TEAM PER SCHOOL IS ALLOWED**

*CAD - Level 4

Teams will be asked to create one or more CAD designs/views as solutions to the problem. Solutions will be evaluated on accuracy and completeness of the 3-D models along the proper application of orthographic projection and dimensioning rules

*Cyber Security - Level 4

Teams will solve a selection of cyber security problems using their choice of tools. Solutions will be evaluated on answers to Cyber Security questions and evidence provided.

Desktop Presentations - Levels 2-4

Teams will design original slide shows using text and graphics to achieve the project's objectives. Solutions must meet the problem's requirements and will be evaluated for achievement of stated objectives.

Desktop Publishing - Levels 1-4

Teams will design a publication using their choice of software and clip art. Solutions will be evaluated on originality, creativity, fulfillment of the problem's requirements, and effective use of the computer.

Graphic Design - Levels 1-4

Teams will create visual solutions to various problems using their choice of graphics software. Solutions will be evaluated on originality, creativity, fulfillment of the problem's requirements, and effective use of the computer.

*Integrated Applications - Levels 3 & 4

Teams will integrate word processing, database, and spreadsheet to create solutions to various problems. Solutions will be evaluated on the team's ability to obtain the correct outcome, as well as the methods used to integrate data between applications.

Internet Scavenger Hunt - Level 2

Teams will be given a mini-scavenger hunt to complete. Solutions will be evaluated on answers to Scavenger Hunt questions and methods used to obtain information.

*Music Composition - Levels 3 & 4

Teams will compose original music. Solutions must be in the form of aural compositions. Judges will evaluate by listening to your music, depending on the software. Solutions will be evaluated on originality, creativity, fulfillment of the problem's requirements, and effective use of the computer.

*Programming - Object-Oriented Business - Levels 3 & 4

Teams will solve a selection of programming problems using their choice of Visual Programming or JAVA Programming Languages. Solutions will be evaluated on operability, user-friendliness, clarity, organization, structure, utility, creativity, and fulfillment of the problem's requirements. Each problem has a different point value, and the winner is chosen based on the total number of points earned.

*Programming - Scientific/Non-Business - Level 4

Teams will solve a selection of programming problems using their choice of programming languages. Solutions will be evaluated on operability, user-friendliness, clarity, organization, structure, utility, creativity, and fulfillment of the problem's requirements.

Video Editing - Levels 2-4

Teams will create a video telling a story using video and provided music options with editing software supplied by the team. Final video should be between 1 to 2 minutes. Over 2 minutes is considered ineligible. Solutions will be evaluated on continuity (clarity of the story), composition (length of the shots and video clip arrangement), creativity, editing skills (transitions, effects, etc.), graphics (usage, spelling, and grammar) and use of video clips and music selections

Visual Programming/Block Coding Using ScratchJr (Scratch) - Levels 1 & 2

Teams will create a digital story or a game using ScratchJr or PBS KIDS ScratchJr (Level 1) or Scratch (Level 2). Solutions will be evaluated on creativity, originality, demonstration of technology skill, programming practices, and fulfillment of the problem's requirements.

Web Design - Levels 3 & 4

Teams will create a web page. Solutions will be evaluated on originality and creativity of the web page

Details

For more information go to:
education.whro.org/gcc

Date:

■ Senior Division (6-12)
Saturday, March 7, 2020

■ Junior Division (K-5)
Saturday, May 2, 2020

Location:

Old Dominion University
Webb Center, Norfolk, VA

Registration Deadline:

■ Senior - January 24, 2020
■ Junior - March 20, 2020
\$50 late fee/team

No registration will be accepted after the following:

■ Senior - February 5, 2020
■ Junior - April 1, 2020

Sample Problems/Solutions

■ education.whro.org/gcc-past-problems
■ education.whro.org/gcc-solutions

Questions?

■ Contact your C.I.I. Rep
education.whro.org/ciiooster
■ 866.559.2353 or
gcc@whro.org

- In compliance with ODU's new "Minors on Campus" policy, it is strongly recommended that schools with multiple teams have more than one teacher coach to assist with supervision, as students must be supervised at all times.
- Photos will be taken at the GCC and posted on the Internet.
- WHRO and ODU will not be held liable for any injury, damages, or other kind of loss during the Great Computer Challenge.

Great Computer Challenge Worksheet

Use this worksheet to prep the data.

Register only one team per form.

One team per school per category per level!

(Except for categories with *)



Check one box to designate your Category and Level:

(Click inside the boxes to select. Fields will expand when you begin to type.)

Level →	1	2	3	4
*CAD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Cyber Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Desktop Presentations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Desktop Publishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Graphic Design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Integrated Applications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internet Scavenger Hunt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Music Composition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Programming-Scientific/Non-Business	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Programming-Object Oriented Business	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Web Design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Video Editing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Visual Programming/Block Coding Using Scratch Jr ..	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Visual Programming/Block Coding Using Scratch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Level for each division:

■ Junior Division (K-5)

Level 1.....Grades K-2

Level 2.....Grades 3-5

■ Senior Division (6-12)

Level 3.....Grades 6-8

Level 4.....Grades 9-12

NEW FOR 2020

■ Level 2 Visual Programming/ Block Coding Using Scratch

Computer Type: _____ Software/Version: _____

Teacher Coach(s): _____

School: _____ School Division: _____

Address: _____ City: _____ State: _____ Zip: _____

School-Phone: _____ Home Phone: _____

E-Mail Address: _____ Cell #: _____

Team Members:

(Up to three students for Level 1, 2, & 3. Up to five students for Level 4)

Name: _____ Name: _____ Name: _____

(Use lines below for Level 4 only)

Name: _____ Name: _____

Each team member (not including the teacher coach or alternates) will receive a t-shirt.

Please indicate # of each size for participating students ONLY.

(Youth) Sm: _____ (Adult sizes) Sm: _____ Med: _____ L: _____ XL: _____ XXL: _____ XXXL: _____

Pre-order extra shirts, tote bags, and DVDs!

Extra t-shirts(\$10 prepaid)

Please indicate how many additional shirts you would like to order:

(Youth)Sm: _____ (Adult sizes) Sm: _____ Med: _____ L: _____ XL: _____ XXL: _____ XXXL: _____ # of extra t-shirts: _____

Tote bags (\$10 prepaid)

of tote bags: _____

DVD of GCC Highlights (\$10 prepaid)

of DVDs: _____

Level Registering	Levels 1-3	Level 4
1 <input type="checkbox"/> 2 <input type="checkbox"/>	<input type="checkbox"/> \$45 (C.I.I. Member- education.whro.org/ciimembers)	<input type="checkbox"/> \$55 (C.I.I. Member) <input type="checkbox"/> \$95 (C.I.I. Service Participant)
3 <input type="checkbox"/> 4 <input type="checkbox"/>	<input type="checkbox"/> \$85 (C.I.I. Service Participant- education.whro.org/servicespart)	

Are you late? Add \$50 late fee.

Total amount of extra t-shirts, tote bags & DVDs _____ x \$10 ea. = _____

Method of Payment (Make checks payable to WHRO/C.I.I.)

Check or Purchase Order (Enclosed & payable to WHRO/C.I.I.)

Check or P.O. # _____ (please include copy of purchase order)

Credit Card (Please check one) AMEX Discover MasterCard Visa

(can pay by CC here education.whro.org/gccpayment)

Card Number: _____ Expiration Date: _____

Name as it appears on card: _____ Total Amount \$ _____

Details

Link to official online registration:

education.whro.org/gccregform2020

Registration Deadline:

- Senior - January 24, 2020
- Junior - March 20, 2020

\$50 late fee/team

No registration will be accepted after the following:

- Senior - February 5, 2020
- Junior - April 1, 2020

Digital Confirmation

Packets will be available online two weeks prior to the competition. They will include:

- Directions
- Specific Rules
- Room Assignment
- Day's Schedule
- Other Pertinent Information

Please mail or email a copy of this worksheet with

Payment to:

WHRO/CII

5200 Hampton Blvd,
Norfolk, VA 23508
or gcc@whro.org.

Cancellation policy

A full refund will be issued up until the following dates:

- Senior - February 5, 2020
- Junior - April 1, 2020

Please send an email to gcc@whro.org to let us know you need to cancel your team registration. After these dates, no refund will be issued.

Questions?

- Contact your C.I.I. Rep education.whro.org/ciiorster
- 866.559.2353 or gcc@whro.org

- Photos will be taken at the GCC and posted on the Internet.
- WHRO and ODU will not be held liable for any injury, damages, or other kind of loss during the Great Computer Challenge.

In compliance with ODU's new "Minors on Campus" Policy, it is strongly recommended that schools with multiple teams have more than one teacher coach to assist with supervision, as students must be supervised at all times.

By registering this team, I understand that as the teacher coach, I am responsible for the well-being of my students/team members at all times during the event.