

Computer Science 3&4
Metro High School
Course Syllabus

INSTRUCTOR: Mr. Ademir Koric

Room: 230

Textbook: CPP Institute online Textbook -- provided by the teacher.

Course Description:

Computer Science 3&4 is a year-long course revolving around computer programming in C++ language. The course serves as the cornerstone of any Computer Science curriculum. My primary goal through this course is to motivate and excite all of potential CS students, regardless of their level and prepare them for challenges awaiting them in the world of computer science. **In addition to above – this course is meant to prepare students for an IRC Examination (Industry Recognized Certification)**, which is internationally recognized. The students will take this exam towards the end of the school year and it will be a major component of their grade.

Course Objectives:

Upon completing this course students will be able to:

- ☐ Acquire and demonstrate basic skills associated with computer programming
- ☐ Understand how computers work, how the data is stored and manipulated, as well as why we write computer programs in the first place
- ☐ Make use of relational operators, Boolean expression, counters, arrays, and looping structures to control the flow of a decision making structures within a program
- ☐ Develop programs that deal with large sets of data, data fields, and records using Console and GUI applications
- ☐ Understand the basics behind many different programming languages and apply it towards learning programming languages other than the C++ programming language.

Discipline Policy:

- **Procedures are to be followed at all times** – these procedures ARE VERY IMPORTANT and their details will be discussed throughout the first 2 weeks of class.

Grading Criteria:

- This class uses a
TOTAL POINT SYSTEM.
- **Final Exam = 20% of the grade**

Grading Scale:

A = 90-100
B = 80-89
C = 70-79
F = Below 70

Late Policy:

Please note that all late assignments, projects, and/or homework cannot be turned in late, UNLESS provided an appropriate reason for his/her absence **in a timely fashion** (see teacher expectations for more information)

Teacher Expectations:

- Students are to be actively engaged in the learning process at all times, so they can develop a positive, cooperative classroom learning environment.
- Student collaboration is **HEAVILY ENCOURAGED!**
- Students are expected to be logging in the class daily and participate actively.
- Once the procedures are well established - daily assignment should be expected by students after every class.
- **Students are expected to check their MICROSOFT TEAMS daily, especially in the case of an “absence” of any kind**
 - Unless the student is UNCONSCIOUS (or stranded on an island without internet access) – they must e-mail the teacher and inform him of their absence.
 - **FAILURE TO DO SO** – will prevent them from making up the assignments they have missed that day in class.
 - **IF YOU HAVE E-MAILED THE TEACHER ON TIME** – then the student will earn the right to make up their work.
 - If a student knows ahead of time that he or she will be absent on a certain day – students should let the teacher know in advance
 - this way the students can set up the make-ups with the teacher in a timely fashion.

E-mails/Websites/Software

- all students will be provided with a district e-mail and Office 365 accounts
- students will be responsible for visiting 4 different locations on the daily basis
 - **Microsoft Teams** - HUB
 - **Cengage Website** - website where our textbook will be found
 - **Repl.it** - website where we will often run examples of our code
 - **Koric.Edu20.org** - website where we will take our quizzes/exams
 - **Main Software used:**
 - **Microsoft Visual Studio Community** - IDE in which we will program larger projects in our class

Tips for Success:

- **Do not miss deadlines for your assignments**
 - It is better to submit something and get partial credit than receive a 0 for an assignment
NOT SUBMITTED
- **If you are absent – let the teacher know the same day!**
 - This way you do not miss the opportunity to make it up.
 - On the same note – absences are the MAIN REASON for poor grades in my class – hence, avoiding them to the best of your ability is a good idea.
- **Do not fall behind with the materials we are covering**
 - Use your classmates to get things explained in case you are struggling
 - Get **tutoring from another student** immediately. Usually this is good enough to help you move forward.
 - Catching up is much **more difficult** than keeping up with me
 - Consider setting up **meetings with me** during my office hours. These short tutoring sessions are often extremely effective and useful to the students.
 - **Consider meeting up with me AFTER SCHOOL for a 10 minute tutoring session in case you are struggling.** These short tutoring sessions are often extremely effective and useful to the students.