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Core programming Topics covered: functional programming design for testing program requirements common design patterns unit testing object-oriented design static typing dynamic typing ML-family languages (via Standard ML) Lisp-family languages (via Racket) Ruby and more The How to Code courses are based on the textbook How to Design Programs. We recommend doing all courses in Core CS, only skipping a course when you are certain that you've already learned the material previously. Not every course from a subcategory needs to be taken. Make a copy and input your start date and expected hours per week in the Timeline sheet. Note that Advanced systems assumes the student has taken a basic physics course (e.g. AP Physics in high school). Courses in Advanced CS are electives. Organization. Put the OSSU-CS badge in the README of your repository! Markdown: [![Open Source Society University - Computer Science]( )](HTML: Use our community channels to announce it to your fellow students. The purpose of the evaluation is to act as your first announcement to the world that you are a computer scientist and to get experience listening to feedback — both positive and negative. Students are encouraged to do these assignments. If you plan on showing off some of your coursework publicly, you must share only files that you are allowed to. Congratulations! What is next for you? Choose one subject (e.g. Advanced programming) you want to become an expert in and take all the courses under that heading. There is an open Request For Comment on security course selection. Read more in the FAQ. Do NOT disrespect the code of conduct that you signed in the beginning of each course! How to contribute Getting help (Details about our FAQ and chatroom) Community We have a discord server! This should be your first stop to talk with other OSSU students. Learners can use this spread to estimate their end date. Done: cards with that label represent courses finished by the student. The meaning of each of these labels is: Main Curriculum: cards with that label represent courses that are listed in our curriculum. Why don't you introduce yourself right now? The assignments and exams for each course are to prepare you to use your knowledge to solve real-world problems. Contributors are encouraged to compare the various courses in the RFC and offer feedback. Choose one of the following: Core applications Topics covered: Agile methodology REST software specifications refactoring relational databases transaction processing data modeling neural networks supervised learning unsupervised learning OpenGL ray tracing and more Core ethics Topics covered: Social Context Analytical Tools Professional Ethics Intellectual Property Privacy and Civil Liberties and more Advanced CS After completing every required course in Core CS, students should choose a subset of courses from Advanced CS based on interest. Now that you have a copy of our official board, you just need to pass the cards to the Doing column or Done column as you progress in your study. It's for those who want a proper, well-rounded grounding in concepts fundamental to all computing disciplines, and for those who have the discipline, will, and (most importantly!) good habits to obtain this education largely on their own, but with support from a worldwide community of fellow learners. The First Edition is available for free online and includes problem sets and solutions. Doing: cards with that label represent courses the student is currently doing. The courses themselves are among the very best in the world, often coming from Harvard, Princeton, MIT, etc., but specifically chosen to meet the following criteria. You will not be "graded" in the traditional sense — everyone has their own measurements for what they consider a success. Not only does real project work look great on a resume, but the project will also validate and consolidate your knowledge. Students who have been introduced to programming, either from the courses above or through study elsewhere, should take this course for a flavor of the material to come. Courses must: Be open for enrollment Run regularly (ideally in self-paced format, otherwise running multiple times per year) Be of generally high quality in teaching materials and pedagogical principles Meet the curricular standards of the CS 2013: Curriculum Guidelines for Undergraduate Degree Programs in Computer Science When no course meets the above criteria, the coursework is supplemented with a book. We also have labels to help you have more control through the process. The curriculum is designed as follows: Intro CS: for students to try out CS and see if it's right for them Core CS: corresponds roughly to the first three years of a computer science curriculum, taking classes that all majors would be required to take Advanced CS: corresponds roughly to the final year of a computer science curriculum, taking electives according to the student's interests Final Project: a project for students to validate, consolidate, and display their knowledge, to be evaluated by their peers worldwide Duration: It's not merely for career training or professional development. How to show your progress Create an account in Trello. Cooperative work You can create this project alone or with other students! We love cooperative work! Use our channels to communicate with other fellows to combine and create new projects! Which programming languages should I use? Congratulations After completing the requirements of the curriculum above, you will have completed the equivalent of a full bachelor's degree in Computer Science. You can create something entirely new, or you can find an existing project that needs help via websites like CodeTriage or First Timers Only. Join a local developer meetup (e.g. via meetup.com). The intention of this board is to provide our students a way to track their progress, and also the ability to show their progress through a public page for friends, family, employers, etc. Team See how to copy a board here. Decide how much or how little to spend based on your own time and budget; just remember that you can't purchase success! Process. It is possible to finish within about 2 years if you plan carefully and devote roughly 20 hours/week to your studies. Read more here. When there are courses or books that don't fit into the curriculum but are otherwise of high quality, they belong in extras/courses or extras/readings. You can also create your own custom subject, but we recommend getting validation from the community on the subject you choose. All or nearly all course material is available for free. Pay attention to emerging technologies in the world of software development: Explore the actor model through Elixir, a new functional programming language for the web based on the battle-tested Erlang Virtual Machine! Explore borrowing and lifetimes through Rust, a systems language which achieves memory- and thread-safety without a garbage collector! Explore dependent type systems through Idris, a new Haskell-inspired language with unprecedented support for type-driven development. If you finish the course wanting more, Computer Science is likely for you! Topics covered: computation imperative programming basic data structures and algorithms and more Core CS All coursework under Core CS is required, unless otherwise indicated. My friend, here is the best part of liberty! You can use any language that you want to complete the final project. There are a number of tools that are widely used to make that process easier. After you've gotten through all of Core CS and the parts of Advanced CS relevant to you, you should think about a problem that you can solve using the knowledge you've acquired. As you work through courses you can enter your actual course completion dates in the Curriculum Data sheet and get updated completion estimates. Advanced programming

Topics covered: debugging theory and practice goal-oriented programming parallel computing object-oriented analysis and design UML large-scale software architecture and design and more (*) book by Blackburn, Bos, Striegnitz (compiled from source, redistributed under CC license) Advanced systems Topics covered: digital signaling combinational logic CMOS technologies sequential logic finite state machines processor instruction sets caches pipelining virtualization parallel processing virtual memory synchronization primitives system call interface and more Advanced theory Topics covered: formal languages Turing machines computability event-driven concurrency automata distributed shared memory consensus algorithms state machine replication computational geometry theory propositional logic relational logic Herbrand logic game trees and more Advanced math Final project OSS University is project-focused. Students can work through the curriculum alone or in groups, in order or out of order. Those cards with the Section label are only to help the organization of the Done column. This course is self-paced, allowing you to adjust the number of hours you spend per week to meet your needs. Topics covered: discrete mathematics mathematical proofs basic statistics O-notation discrete probability and more CS Tools Understanding theory is important, but you will also be expected to create programs. Note that both Coursera and edX offer financial aid. Section: cards with that label represent the section that we have in our curriculum. Topics covered: simple programs simple data structures Introduction to Computer Science This course will introduce you to the world of computer science. The final project evaluation has a second purpose: to evaluate whether OSSU, through its community and curriculum, is successful in its mission to guide independent learners in obtaining a world-class computer science education. If there is a problem with a course, or a change needs to be made to the curriculum, this is the place to start the conversation. Content policy. However, some courses may charge money for assignments/tests/projects to be graded. Cost. You can safely ignore it. Calculus both prepares students for discrete math and helps students develop mathematical maturity. Extra Resources: cards with that label represent courses that were added by the student. Intro CS Introduction to Programming If you've never written a for-loop, or don't know what a string is in programming, start here. Advanced CS assumes the student has already taken the entirety of Core CS and is knowledgeable enough now to decide which electives to take. Subscribe to our newsletter. Curriculum version: 8.0.0 (see CHANGELOG) Prerequisites Core CS assumes the student has already taken high school math, including algebra, geometry, and pre-calculus. It is designed according to the degree requirements of undergraduate computer science majors, minus general education (non-CS) requirements, as it is assumed most of the people following this curriculum are already educated outside the field of CS. You can change the status of your board to be public or private. The important thing is to internalize the core concepts and to be able to use them with whatever tool (programming language) that you wish. For simplicity, we recommend working through courses (especially Core CS) in order from top to bottom, as they have already been topologically sorted by their prerequisites. Solicit feedback from your OSSU peers. Add Open Source Society University to your Linkedin profile! Note: There is an unmaintained and deprecated firebase app that you might find when searching OSSU. Copy this board to your personal account. Here is a sample of options (many more are available, at this point you should be capable of identifying a series that is interesting and relevant to you): Evaluation Upon completing your final project: Submit your project's information to PROJECTS via a pull request. Join the OSSU Discord You can also interact through GitHub issues. Open Source Society University Path to a free self-taught education in Computer Science! Contents Summary Community Curriculum Code of conduct Team The OSSU curriculum is a complete education in computer science using online materials. Code of conduct OSSU's code of conduct. Team Page 2 Open Source Society University Path to a free self-taught education in Computer Science! Contents Summary Community Curriculum Code of conduct Team The OSSU curriculum is a complete education in computer science using online materials. Students who would like more guidance in creating a project may choose to use a series of project oriented courses. Learn them now to ease your future work writing programs. But students should take every course that is relevant to the field they intend to go into. Topics covered: terminals and shell scripting vim command line environments version control and more Core systems Topics covered: procedural programming manual memory management boolean algebra gate logic memory computer architecture assembly machine language virtual machines high-level languages compilers operating systems network protocols and more Core theory Topics covered: divide and conquer sorting and searching randomized algorithms graph search shortest paths data structures greedy algorithms minimum spanning trees dynamic programming NP-completeness and more Courses Duration Effort Prerequisites Discussion Divide and Conquer, Sorting and Searching, and Randomized Algorithms 4 weeks 4-8 hours/week any programming language, Mathematics for Computer Science chat Graph Search, Shortest Paths, and Data Structures 4 weeks 4-8 hours/week Divide and Conquer, Sorting and Searching, and Randomized Algorithms chat Greedy Algorithms, Minimum Spanning Trees, and Dynamic Programming 4 weeks 4-8 hours/week Graph Search, Shortest Paths, and Data Structures chat Shortest Paths Revisited, NP-Complete Problems and What To Do About Them 4 weeks 4-8 hours/week Greedy Algorithms, Minimum Spanning Trees, and Dynamic Programming chat Core security Topics covered Confidentiality, Integrity, Availability Secure Design Defensive Programming Threats and Attacks Network Security Cryptography and more Note: These courses are provisionally recommended. Core math Discrete math (Math for CS) is a prerequisite and closely related to the study of algorithms and data structures. The possibilities are boundless and overlapping: Look for a job as a developer! Check out the readings for classic books you can read that will sharpen your skills and expand your knowledge. You should put the Course's cards below its respective Section's card. Those cards should also have the link for at least one project/article built with the knowledge acquired in such a course.

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