



Book of Bibliography by course

School of Computer Science

- 2023-I -

: June 13, 2023

Task Force

Ernesto Cuadros-Vargas (Editor) <ecuadros@spc.org.pe>

President of the Peruvian Computer Society (SPC) 2001-2007, 2009

Member of the Steering Committee de ACM/IEEE-CS Computing Curricula
for Computer Science (CS2013)

Member of Steering Committee de ACM/IEEE-CS Computing Curricula 2020
(CS2020)

Mdmbner of the Board of Governors of the IEEE Computer Society (2020-2023)

email: ecuadros@spc.org.pe

<http://socios.spc.org.pe/ecuadros>

Contents

First Semester	1
1.1 CS111. Computing Foundations	2
1.2 CS1D1. Discrete Structures I	2
1.3 MA100. Mathematics I	2
1.4 FG101. Communication	2
1.5 FG102. Study Methodology	2
Second Semester	2
2.1 CS112. Computer Science I	2
2.2 CS1D2. Discrete Structures II	2
2.3 MA101. Math II	2
2.4 FG106. Theater	2
Third Semester	2
3.1 CS113. Computer Science II	2
3.2 CS221. Computer Systems Architecture	2
3.3 CS2B1. Platform Based Development	2
3.4 FG203. Oratory	2
Fourth Semester	2
4.1 CS210. Algorithms and Data Structures	2
4.2 CS211. Theory of Computation	2
4.3 CS271. Data Management	2
4.4 CS2S1. Operating systems	2
4.5 MA203. Statistics and Probabilities	2
4.6 FG350. Leadership and Performance	2
Fifth Semester	2
5.1 CS212. Analysis and Design of Algorithms	2
5.2 CS272. Databases II	2
5.3 CS291. Software Engineering I	2
5.4 CS342. Compilers	2
5.5 CB111. Computational Physics	2
Sixth Semester	2
6.1 CS261. Intelligent Systems	2
6.2 CS292. Software Engineering II	2
6.3 CS311. Competitive Programming	2
6.4 CS312. Advanced Data Structures	2

6.5	CS393. Information systems	2
6.6	MA307. Mathematics applied to computing	2
Seventh Semester		2
7.1	CS231. Networking and Communication	2
7.2	CS2H1. User Experience (UX)	2
7.3	CS391. Software Engineering III	2
7.4	CS401. Methodology of Computation Research	2
7.5	CS251. Computer graphics	2
7.6	CS262. Machine learning	2
7.7	CS2T1. Computational Biology	2
Eighth Semester		2
8.1	CS281. Computing in Society	2
8.2	CS3I1. Computer Security	2
8.3	CS3P1. Parallel and Distributed Computing	2
8.4	CS402. Capstone Project I	2
8.5	ET201. Entrepreneurship I	2
8.6	CS361. Computational Vision	2
Ninth Semester		2
9.1	CS370. Big Data	2
9.2	CS403. Final Project II	2
9.3	CB309. Bioinformatics	2
9.4	ET301. Entrepreneurship II	2
9.5	CS369. Topics in Artificial Intelligence	2
9.6	CS351. Topics in Computer Graphics	2
9.7	CS392. Tópicos en Ingeniería de Software	2
Tenth Semester		2
10.1	CS365. Evolutionary Computing	2
10.2	CS3P2. Cloud Computing	2
10.3	CS3P3. Internet of Things	2
10.4	CS404. Final Project III	2
10.5	FG211. Professional Ethics	2
10.6	ET302. Entrepreneurship III	2
10.7	CS3T5. Modeling and Simulation of Biological Systems	2
10.8	CS3T9. Advanced Topics in Bioinformatics	2
10.9	CS366. Robotics	2

- 1.1 CS111. Computing Foundations**
- 1.2 CS1D1. Discrete Structures I**
- 1.3 MA100. Mathematics I**
- 1.4 FG101. Communication**
- 1.5 FG102. Study Methodology**
- 2.1 CS112. Computer Science I**
- 2.2 CS1D2. Discrete Structures II**
- 2.3 MA101. Math II**
- 2.4 FG106. Theater**
- 3.1 CS113. Computer Science II**
- 3.2 CS221. Computer Systems Architecture**
- 3.3 CS2B1. Platform Based Development**
- 3.4 FG203. Oratory**
- 4.1 CS210. Algorithms and Data Structures**
- 4.2 CS211. Theory of Computation**
- 4.3 CS271. Data Management**
- 4.4 CS2S1. Operating systems**
- 4.5 MA203. Statistics and Probabilities**
- 4.6 FG350. Leadership and Performance**
- 5.1 CS212. Analysis and Design of Algorithms**
- 5.2 CS272. Databases II**
- 5.3 CS291. Software Engineering I**
- 5.4 CS342. Compilers**

- 5.5 CB111. Computational Physics**
- 6.1 CS261. Intelligent Systems**
- 6.2 CS292. Software Engineering II**