



# University of Naga

Online and Offline

## Bachelor of Science in Computer Science (BSCS)

### First Year – First Semester

|                                 |         |
|---------------------------------|---------|
| Introduction to Computing       | 3 units |
| Computer Programming 1 (Vb.Net) | 3 units |
| Heuristics                      | 3 units |
| Algebra                         | 3 units |
| Calculus 1                      | 3 units |
| English 1                       | 3 units |
| First Aid                       | 3 units |

### First Year – Second Semester

|  |         |
|--|---------|
| Computer Programming 2 (C#.NET)                    | 3 units |
| Data Structures and Algorithm                      | 3 units |
| Trigonometry                                       | 3 units |
| Information Management                             | 3 units |
| Applications Development and Emerging Technologies | 3 units |
| English 2  | 3 units |
| Filipino 1   | 3 units |

### Second Year – First Semester

|                                  |         |
|----------------------------------|---------|
| Object Oriented Programming      | 3 units |
| Design and Analysis of Algorithm | 3 units |
| Discrete Structures 1            | 3 units |
| Algorithm and Complexity         | 3 units |
| Calculus 2                       | 3 units |
| English 3                        | 3 units |
| Filipino 2                       | 3 units |

### Second Year – Second Semester

|  |         |
|--|---------|
| Database Systems                                   | 3 units |
| Programming Languages                              | 3 units |
| Automata Theory and Formal Languages               | 3 units |
| Digital Design: Logic Circuit and Switching Theory | 3 units |
| Probability and Statistics                         | 3 units |
| Discrete Structures 2                              | 3 units |

English 4 3 units

**Third Year – First Semester**

Web Programming (HTML5/CSS3) 3 units  
Modeling and Simulation 3 units  
Programming with C/C++ 3 units  
Architecture and Organization 3 units  
Information Assurance and Security 3 units  
Human Computer Interaction 3 units  
Filipino 3

**Third Year – Second Semester**

Software Engineering 1 3 units  
Operating Systems 3 units  
Networks and Communications 3 units  
Programming Languages 3 units  
Filipino 4 3 units  
On the Job Training 1 (OJT) 3 units

**Fourth Year – First Semester**

Software Engineering 2 3 units  
CS Thesis Writing 1 3 units  
Network Principles and Programming 3 units  
Professional Ethics 3 units  
Computational Science 3 units  
On the Job Training 2 (OJT) 3 units

**Fourth Year – Second Semester**

Social Issues and Professional Practice 3 units  
CS Thesis Writing 2 3 units  
Graphics and Visual Computing 3 units  
Parallel and Distributed Computing 3 units  
Intelligent Systems 3 units  
System Fundamentals 3 units

**Total Units 159 Units**

## **FASCILITIES AND TECHNOLOGIES**

University of Naga is known for its Engineering lifelike structure and methods that empowers students to be prepared for their future job and qualifications. The University also became popular for its years of inventions for CodeBase Electronics (CB).

## **WHAT IS CODEBASE ELECTRONICS?**

CodeBase Electronics lets you design projects easily and can be understand by anyone. It focuses on computer interfaces to basic electronics that can create circuitry in a vast way even in advance. It is the analogy to understand binary systems (1 or 0).

## **SOFTWARES**

WinBubble (Customized and Tweak Windows Easily), Windows Registry  
Scour (Fastest and True Search Engine), VB.NET and Fastest Algorithm  
Desktop Cities (upgrade to Windows OS), VB.NET or C#.NET  
Lawrence Spreadsheet Technology, VB.NET or C#.NET  
Notepad Coder, VB.NET or C#.NET  
Complete CAD, VB.NET or C#.NET  
Client-Server Technology

## **HARDWARE**

Switched mode Power Supply, Battery charger with auto-stop diode, Emergency Lighting,  
No Power Alarm Zero, Remote I/O Technology, No Power Alarm Logger, Power Line  
Monitoring Systems (PLMS), Computerized Water Level Monitoring, Fuse Monitoring,  
Battery Monitoring, Solar Monitoring, Computerized Temperature Logger Detection and  
Train Logger

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