

Department of Computer Science & Engineering

| Introduction |

The purpose of education in the Department of Computer Science & Engineering is to acquire the theory and knowledge of computer science and engineering that is constantly developing, and to play an important role as the next generation computer expert, manager and researcher in the leading of the information society through research and practice process. In 1998, a master's program was established and a Ph.D. program began in 2001. Full-time professors who are majoring in computer and computer-related areas of hardware and software are conducting lectures on both theory and practice, as well as active research on various advanced fields. In addition, the department possesses a variety of advanced equipment for the study and research of graduate students in the master's and doctoral programs. There are two main objectives of the Graduate School in the Department of Computer Science & Engineering: -The graduate school educates high-quality human resources with knowledge in advanced fields such as hardware design and development, computer system programming, various software development, and traditional theories and technologies of computer science and engineering. In addition, we will cultivate talented people with the ability to research and develop new systems, and to utilize the systems efficiently, as professionals, managers and researchers who will lead the next generation of information industry. By having logical thinking skills, comprehensive analytical skills, and moral character, students can contribute to the development of their society based on the acquired knowledge.

| Information |

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| Professor Introduction |

Name	Field of study	Tel	E-mail
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Byoungwook Kim	Data Mining	033-760-8709	bwkim@gwnu.ac.kr
Yeongwook Yang	Machine Learning	033-760-8671	yeongwook.yang@gwnu.ac.kr

| Curriculum – Master's course · Doctoral course |

Course Code	Course Title	Credit
503.501	Topics in Computer Architecture	3-3-0
503.502	Topics in Database Design	3-3-0
503.503	Seminar in Database Management	3-3-0
503.504	Advanced Microprogramming	3-3-0
503.505	Advanced Software Engineering	3-3-0
503.506	Topics in Software Engineering	3-3-0
503.507	Advanced Project Management	3-3-0
503.508	Object-Oriented Software Engineering	3-3-0
503.509	Advanced Artificial Intelligence	3-3-0
503.510	Seminar in Computer Graphics	3-3-0
503.511	Seminar in Computer Network	3-3-0
503.512	Seminar in Computer Algorithm	3-3-0
503.513	Seminar in Distributed Processing System	3-3-0
503.514	Topics in Artificial Life	3-3-0
503.601	Topics in Programming Language	3-3-0

503.602	Advanced Programming Language	3-3-0
503.603	Advanced Computer Architecture	3-3-0
503.604	Topics in Operating System	3-3-0
503.605	Advanced Operating System	3-3-0
503.606	Topics in Data Structure	3-3-0
503.607	Topics in Performance Evaluation	3-3-0
503.608	Seminar in Compiler	3-3-0
503.609	Advanced Numerical Analysis	3-3-0
503.610	Seminar in Computer Application	3-3-0
503.611	seminar in Multimedia	3-3-0
503.612	Topics in Formal Languages and Automat	3-3-0
503.613	Seminar in Computer Vision	3-3-0
503.614	Graph Theory	3-3-0
503.615	Topics in Parallel Processing	3-3-0
503.616	Seminar in Fuzzy Theory	3-3-0
503.617	Topics in Pattern Recognition	3-3-0
503.618	Seminar in Neural Networks	3-3-0
503.619	Seminar in Computer-Aided Design	3-3-0
503.620	Topics in VLSI Design	3-3-0
503.621	Seminar in Simulation	3-3-0
503.622	Seminar I	3-3-0
503.623	Seminar II	3-3-0
503.624	Seminar III	3-3-0
503.625	Seminar IV	3-3-0
503.626	Topics in Digital System Design	3-3-0
503.627	Topics in Microprocessor	3-3-0
503.628	Advanced Software Architecture	3-3-0
503.629	Web-based Software Engineering	3-3-0
503.630	Advanced Distributed Object Middleware	3-3-0
503.631	Topics in Advanced Wireless Network	3-3-0
503.632	Real-time Operation System	3-3-0
503.633	Computational biology	3-3-0
503.634	Biological Data Mining	3-3-0
503.635	Topics in Telecommunications Network	3-3-0