



UW Extension Certificate Program in Systems Analysis

About the Program

Systems analysis is the process of assessing business needs, reviewing organizational structures, gathering system requirements and translating the needs of a business or organization into a viable IT system.

This certificate program focuses on the needs of organizations, then develops standards and requirements around those needs to translate them into an effective IT solution. Although systems analysis is generally an IT topic, program participants will also gain an understanding of the big picture by viewing the processes holistically from inception to project completion.

The subject matter includes, but is not limited to, organizational knowledge management, the performance of contextualized inquiries and gathering of business requirements. Students will also look at organizational, systems and UML diagramming, methodologies of interfacing effectively with end users, and the software development life cycle. This certificate program is project-driven, giving students the experience of working on a longer systems analysis project. Microsoft Project is provided at no charge.

Who Should Participate

- Individuals who wish to further their IT skills and become well rounded generalists in systems analysis
- Database developers with a business or organizational perspective
- Small to mid-size organizational IT analysts with a variety of job duties
- Project managers seeking to further their IT analytical skills
- Individuals interested in systems analysis, business analysis, financial analysis, functional analysis, security analysis or system development

Certificate Topics

- Enterprise and business analysis
- Frameworks for enterprise architectures and models
- Requirements planning, gathering, implementation and analysis
- Understanding and representing corporate culture
- Business modeling
- Process modeling
- Modeling tools
- Making a business case
- Feasibility studies
- Governmental regulatory requirements
- Security issues and requirements
- Change management
- Risk analysis
- Database architecture and basic design (using MS Access or SQL Server)
- Project planning
- Different types of analytical and representational models such as ER diagrams, culture models and flow diagrams
- Introduction to MS Project
- The system development life cycle
- Tools for systems development
- Software development methodologies
- Case analysis
- Conceptual modeling
- Customizing applications vs. reengineering business processes
- Making outsourcing decisions
- Benefits and pitfalls of open source vs. proprietary systems
- Usability testing
- Prototyping
- Project scheduling

PROFESSIONAL CERTIFICATE PROGRAM

>> www.extension.washington.edu

Courses

Introduction to Systems Analysis

Provides an overview of systems analysis, exploring methods, techniques and tools as well as the work products produced, including models and specifications. The role and function of the systems analyst is examined.

Architectures, Modeling and Project Management

Students use the concepts acquired in the first course to begin to gather business requirements and create various models to outline the proposed work. They also are introduced to database concepts such as table creation, queries, ad hoc reporting and table relationships as one type of system that might be analyzed and implemented. The final portion of the course concentrates on project management.

Systems Development and Implementation

Emphasizes a hands-on project as well as targeted group work. Also includes a series of topical lectures that enhance students' understanding of the many nuanced skills required of the systems analyst.

About UW Extension Certificate Programs

This nine-month program gives you a diverse set of skills to take you to the next stage in your career.

Build Your Network! You'll connect with other designers & developers enhancing their own careers, allowing you to learn from their experiences and expand your professional network.

Study with the Pros! Learn from seasoned instructors who derive their expertise from many years of teaching & professional experience.

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About UW Extension

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📍 Attend an information meeting.

Interested in a certificate? You can ask questions and meet instructors and former students at these free meetings. For meeting dates, times and locations, please go to our Web site.

Questions? Ask away

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