CAREER PATHS

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SOFTWARE ENGINEERING

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Book 1

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Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	The Software Engineer	Course Description	artifact, design, develop, evaluate, install, investigate, programming- in the-large, programming-in-the small, software, test, write	Expressing enthusiasm
2	Types of Eomputers	Journal Article	computer, computing cluster, desktop,embedded computer, laptop, notebook, PC, server, tablet, workstation	Making plans
3	Accessories and Peripherals	Email	flash drive, flat panel, inkjet printer, keyboard, laser printer, monitor, optical mouse, peripheral, scroll wheel, scanner, wireless	Apologizing for an error
4	Inside the Computer	Brochure	case, CD/ DVD drive, cover, fan, hard drive, heat sink, motherboard, port, power supply, processor	Offering advice
5	System Software 1	Textbook chapter	BIOS, control, device driver, firmware,hardware, manually, operate, operating system, system software, window system	Giving a reminder
6	System Software 2	Webpage	antivirus software, deny, firewall, malware, permit, quarantine, removal, security software, spyware	Describing consequences
7	Programming Software	Textbook Chapter	compiler, debugger, IDE, interpreter, linker, program, programming language, programming software, source code editor, text editor	Expressing confusion
8	Application Software 1	Advertisement	accounting, application software, desktop publishing, enterprise, image editing, office suite, spreadsheet, video editing, web browsing, word processing	Politely disagreeing
9	Application Software 2	Journal Article	bioinformatics, cost analysis, data management, digital assistant, mobile app, multimedia player, payroll, route planning, satellite navigation, simulation	Asking for more information
10	The Desktop and GUI	Manual	cursor, desktop, dropdown menu, folder, GUI, icon, open, right-click, run, select	Giving instructions
11	Basic Numbers and Math	Chart	add, equal, divide by, hundred, less, minus, multiply by, over, subtract, times	Making a realization
12	Analyzing Numbers and Quantities	Textbook Chapter	convert, decimal number, denominator, fraction, numerator, out of, percent, percentage, point, reduce	Describing progress
13	Describing Change	Magazine Article	decline, decrease, double, expand, fluctuate, increase, rise, stablilize, steady, trend	Expressing confidence
14	Presentations and Communication	Email	body language, eye contact, handout, note card, presentation, project, review, signpost, summary, visual aid	Giving constructive criticism
15	Education	Webpage	Bachelor's degree, calculus, circuit analysis, computer architecture, computer engineering, control system, electronics, foundation, linear algebra, programming	Describing order of events

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