Here's a Bachelor of Science (BSc) degree-style curriculum table structured to cover Full Stack Development, Design, QA, DevOps, Project Management, Software Architecture, and Customer Support as specialized areas. This schedule spans 8 semesters (4 years) and includes core courses, electives, projects, and industry-ready skills for expertise.

| Semester | Subject Area | Topics | Learning Resources |
|---|---|---|---|
| 01 | Core Programming | Programming Fundamentals (Python, JavaScript), Algorithms, and Data Structures | - Introduction to the Theory of Computation by Michael Sipser<br>- CS50's Introduction to Computer Science (Harvard) |
| 02 | Web Development Basics | HTML, CSS, JavaScript Basics | - HTML & CSS: Design and Build Websites by Jon Duckett<br>- FreeCodeCamp Web Dev Guide |
| 03 | Backend Development | Node.js, Express, Databases (SQL, MongoDB) | - Eloquent JavaScript by Marijn Haverbeke<br>- MDN Backend Docs |
| 04 | UI/UX Design Basics | Design Principles, Figma, Prototyping | - The Elements of User Experience by Jesse James Garrett<br>- Interaction Design Foundation |
| 05 | Frontend Development | React/Angular, State Management, Responsive Design | - Learning React by Kirupa Chinnathambi<br>- Frontend Mastery by Codecademy |
| 06 | QA Testing Basics | Manual Testing, Introduction to Automation Testing Tools (Selenium) | - Testing Computer Software by Cem Kaner<br>- Test Automation University |
| 07 | Full Stack Development | APIs, Authentication (JWT, OAuth), Advanced JavaScript | - The Odin Project Full Stack Path |
| 08 | UI/UX Advanced | Advanced Prototyping, Usability Testing, Motion Design | - Don't Make Me Think by Steve Krug<br>- Design + Code Tutorials |
| 09 | Software Architecture | Microservices, Design Patterns, Scalability | - Designing Data-Intensive Applications by Martin Kleppmann |
| 10 | Advanced Full Stack | Real-Time Applications (WebSocket), Serverless Architecture | - Node.js in Action |
| 11 | QA Automation | Test Frameworks (Cypress, Appium), Performance Testing | - Continuous Testing for DevOps Professionals by Katrina Clokie |
| 12 | DevOps Basics | Linux Command Line, Version Control (Git), CI/CD Fundamentals | - DevOps Full Course by Simplilearn |
| 13 | Project Management | Agile Methodology, Scrum, Stakeholder Management | - Scrum: The Art of Doing Twice the Work in Half the Time by Jeff<br>- Agile Manifesto |
| 14 | DevOps Advanced | Docker, Kubernetes, Infrastructure as Code | - The Phoenix Project by Gene Kim<br>- Docker Documentation |
| 15 | Customer Support | CRM Tools, Communication Strategies, Handling User Feedback | - Zendesk Customer Support Guide |
| 16 | Capstone Project | Build a Full-Scale Application Incorporating All Skills | - Mentorship Programs (LinkedIn Learning)<br>- Personal GitHub Projects |

| Duration | Topics | Learning Resources | Practice Examples | Collaboration Tools |
|---|---|---|---|---|
| **Full Stack Development** | | | | |
| Week 1-4 | HTML, CSS, JS Basics | - HTML & CSS by Jon Duckett<br>- FreeCodeCamp | - Build a Portfolio Website<br>- Frontend Mentor Challenges | - GitHub for version control<br>- Slack/Discord for team discussions |
| Week 5-8 | Backend (Node.js, MongoDB) | - Eloquent JavaScript by Marijn Haverbeke<br>- The Odin Project | - Build a REST API for a blog<br>- API Practice | - GitLab for collaboration<br>- Trello for task management |
| Week 9-12 | Advanced Full Stack (React, Authentication) | - Learning React by Kirupa Chinnathambi<br>- Scrimba React | - Build a real-time chat app<br>- Socket.IO Demos | - VS Code Live Share for coding together |
| **Design and User Experience** | | | | |
| Week 1-3 | UI/UX Basics, Figma | - The Elements of User Experience by Jesse<br>- Figma Tutorials | - Redesign a popular app's interface<br>- Daily UI Challenges | - Figma Collaboration Tools<br>- Miro for brainstorming |
| Week 4-5 | Prototyping, User Research | - Don't Make Me Think by Steve Krug<br>- User Research Basics | - Conduct a usability test for a basic prototype | - Optimal Workshop for usability testing |
| Week 6-8 | Advanced Design (Motion, Accessibility) | - Google UX Design Certificate | - Create an accessible app interface<br>- Contrast Checker | - XD Team Collaboration Features |
| **Software Architecture** | | | | |
| Week 1-3 | System Design Basics, Micro-services | - Designing Data-Intensive Applications by Martin Kleppmann | - Design an architecture for a social media platform | - Lucidchart or Draw.io for diagramming |
| Week 4-6 | Scalability, Performance Optimization | - System Design Primer | - Optimize database queries | - AWS Architecture Tools |
| **QA Engineering** | | | | |
| Week 1-2 | Manual Testing Basics | - Testing Computer Software by Cem Kaner<br>- ISTQB Foundations | - Test an e-commerce website<br>- Bug Reporting Practice | - Jira for test tracking<br>- TestRail for test case management |
| Week 3-6 | Automation Testing (Selenium, Cypress) | - Test Automation University | - Write test cases for a web app<br>- Selenium Project Ideas | - Browser-Stack for cross-browser testing |
| Week 7-8 | Performance and Security Testing | - OWASP Testing Guide | - Load test with JMeter<br>- Penetration test a small API | - OWASP ZAP for security testing |
| **DevOps** | | | | |
| Week 1-2 | CI/CD Basics, Git, Docker | - The Phoenix Project by Gene Kim<br>- Docker Documentation | - Set up CI/CD with GitHub Actions<br>- Create a Dockerized web app | - Jenkins for pipeline<br>- Docker Hub for container collaboration |
| Week 3-5 | Kubernetes, Infrastructure as Code | - Kubernetes Tutorials | - Deploy an app using Kubernetes<br>- Practice with Terraform | - Kubernetes Dashboard |
| Week 6-8 | Advanced Monitoring and Security | - Prometheus & Grafana Docs | - Monitor a live app<br>- Use Grafana to visualize server performance | - Prometheus and Grafana Tools |
| **Project Management** | | | | |
| Week 1-2 | Agile, Scrum Basics | - Scrum: The Art of Doing Twice the Work in Half the Time by Jeff Sutherland | - Plan a mock sprint with your team | - Trello/Asana for Agile project management |

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| Week 3-4 | Stakeholder Management, Communication | - Agile Alliance Resources | - Create stakeholder communication templates | - Miro for stakeholder mapping |
| Week 5-6 | Advanced Planning and Risk Management | - PMBOK Guide | - Draft a risk management plan | - Microsoft Project |
| **Customer Support** | | | | |
| Week 1-2 | CRM Tools, User Feedback Collection | - Zendesk Academy | - Set up a helpdesk system | - Zendesk or Freshdesk |
| Week 3-4 | Effective Communication | - Customer Support Handbook by Sarah Hatter | - Write FAQ documents | - Slack for internal communication |

**Additional Notes:**

Internships & Industry Certifications:

Encourage internships after the 4th semester.

Certifications: AWS Certified Developer, Scrum Master Certification, Google UX Design Certification.

Electives:

Mobile Development (Flutter/Swift/Kotlin).

Advanced QA: Security Testing, Penetration Testing.

Advanced DevOps: Terraform, Monitoring with Prometheus/Grafana.

**Capstone Project (Final Semester)**

Build a team project integrating all skills:

Example: A scalable e-commerce platform with a fully functional frontend, backend, CI/CD pipeline, UX research, and customer support.

Collaborate on:

GitHub for version control.

Trello for Agile sprints.

Miro for UX design.

Slack/Discord for communication.

This schedule ensures you gain theoretical knowledge, practical skills, and collaborative experience to master these domains. Let me know if you'd like to refine or customize any sections!