

**Roundup of Cloud Computing Online Courses and Programs  
July 27, 2014**

University or Massive Open Online Course (MOOC) Provider	Course & Description	100% Online?	Date Course Begins	Cost	Website
<b>Amazon Web Services</b>	<a href="#">AWS Training</a> - AWS Training is designed to help individuals delivering cloud-based solutions gain proficiency with AWS services and solutions. We offer free instructional videos, self-paced labs, and instructor-led classes. Amazon's role-based technical training courses are designed around the three primary roles that comprise engineering teams delivering cloud-based solutions: Solutions Architect, SysOps Administrator, and Developer. AWS provides free access to instructional videos, self-paced labs and a subset of their large selection of courses.	Yes	Instructional Videos & Self-Paced Labs: On Demand  Courses: start date varies by location	Free for instructional videos, self-paced labs and selected courses  Cost varies by specific courses	<a href="http://aws.amazon.com/training/">http://aws.amazon.com/training/</a>
<b>Cork Institute of Technology</b>	<b>MSc in Cloud Computing (Online Programme)</b> - Master's Degree program comprised of Cloud Strategy Planning & Management, Managing Virtual Environments, Software Engineering, Data Analytics, Data Centre Networking, Application Development Frameworks, Scripting for System Administrators, Cloud Security, Cloud Storage Infrastructures and a Research Project.	Yes	Application deadline: 9/1/2014	The total cost of the programme (3 semester part-time mode) is €10,800. The fee per semester is €3600.	<a href="http://cloud.cit.ie/msc-cloud-computing/">http://cloud.cit.ie/msc-cloud-computing/</a>
<b>Coursera &amp; University of Maryland</b>	<a href="#">Programming Mobile Applications for Android Handheld Systems</a> - This course will cover the fundamental programming principles, software architecture and user experience considerations underlying handheld software applications and their development environments. To bring these concepts alive, the course will involve in--depth, hands--on examples, implemented in the Android Platform, the fastest growing segment of the handheld system user base. Students will apply these teachings, also using the Android Platform, in laboratory projects and in a large---scale semester project.	Yes	9/26/2014	Free	<a href="https://www.coursera.org/course/android">https://www.coursera.org/course/android</a>

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Coursera & The University of New Mexico	<a href="#">Web Application Architectures</a> - This course explores the development of web application architectures from an engineering perspective. By the end of this course, students will be able to design, develop and deploy a modern web application. The second goal is to understand the major architectural components in web apps, and how they fit together. The third goal is to better understand modern software engineering practice.	Yes	8/11/2014	Free	<a href="https://www.coursera.org/course/webapplications">https://www.coursera.org/course/webapplications</a>
Coursera & Vanderbilt University	<a href="#">Programming Cloud Services for Android Handheld Systems</a> : This MOOC describes by example how to connect Android mobile devices to clouds via the use of object-oriented design techniques, Java programming language features, Jetty middleware, Java Servlets, the Java Spring Framework, and cloud computing platforms, such as Google App Engine.	Yes	7/21/14	Free	<a href="https://www.coursera.org/course/mobilecloud">https://www.coursera.org/course/mobilecloud</a>
DePaul University College of Computing and Digital Media	<b>Cloud Computing Technologies Program</b> - <i>Students in class will build their own Cloud application using services from providers such as Amazon, IBM, Microsoft and Salesforce.com.</i> An eleven-week in-depth program in the principles, methods, and technologies of Cloud Computing. The program provides a broad understanding of the different leading Cloud Computing technologies.	Yes	Application deadline: 8/29/14	Fees: Autumn Quarter 2014 Tuition fee: \$1,850.00 Application fee: \$40.00	<a href="http://www.cdm.depaul.edu/ipd/Programs/Pages/CloudComputing.aspx">http://www.cdm.depaul.edu/ipd/Programs/Pages/CloudComputing.aspx</a>
Google Developer's Academy	<b>Comprehensive e-learning site with tutorials on Android, Commerce, Cloud, Maps, Google TV and YouTube development.</b> Google Developers Academy provides a set of online classes spanning many different Google developer tools and platforms. The course materials found here provide developers of all skill levels with curriculum-based learning that goes beyond the traditional technical documentation. Very useful tutorials and online tools for learning Google App Engine, Python App Engine and Google+ APIs.	Yes	Ongoing	Free	<a href="https://developers.google.com/academy/">https://developers.google.com/academy/</a>  Free self-paced sources on Google AppEngine: <a href="https://developers.google.com/appengine/training/">https://developers.google.com/appengine/training/</a>

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<p align="center"><b>Harvard University - Harvard Extension School</b></p>	<p><b>CSCI E-90 Cloud Computing (14300)</b> - The course examines the most important APIs used in the Amazon and Microsoft Clouds. The course covers the use RESTful Web services, and Cloud-based messaging and workflow services to construct new applications. Students learn to migrate existing applications into the Cloud, by navigating through phases such as creation of a private Cloud; attaching, in a secure fashion, the private Cloud to the public Cloud; and provisioning and maintaining resources in the public Cloud. Big Data implications on Cloud Computing is also covered in this course.</p>	<p align="center">Yes</p>	<p align="center">Starts 9/5/214</p>	<p align="center">Course tuition: noncredit \$2,200, graduate credit \$2,200</p>	<p align="center"><a href="http://www.extension.harvard.edu/courses/14300">http://www.extension.harvard.edu/courses/14300</a></p>
<p align="center"><b>Harvard University - Harvard Extension School</b></p>	<p><b>CSCI E-64 Mobile and Cloud Computing</b> - This course covers the essentials necessary to leverage these key technologies in a pragmatic way so the power, innovation, and potential can be fully realized. In this course, we cover the key services and application programming interfaces (APIs) offered by Microsoft Azure to build highly scalable, low cost cloud computing services that bring the power of the cloud to mobile applications. The course covers caching, storage, big data via (HDInsight) Hadoop, SQL database, notification hubs, mobile services, cloud services, load balancing, schedule, multi-factor authentication, and websites.</p>	<p align="center">Yes</p>	<p align="center">1/29/2015</p>	<p align="center">Course tuition: noncredit \$2,200, undergraduate credit \$2,200, Graduate credit \$2,200.</p>	<p align="center"><a href="http://www.extension.harvard.edu/courses/mobile-cloud-computing">http://www.extension.harvard.edu/courses/mobile-cloud-computing</a></p>
<p align="center"><b>MIT Open Courseware</b></p>	<p><b>MIT OpenCourseWare (OCW)</b> is a web-based publication of virtually all MIT course content. OCW is open and available to the world and is a permanent MIT activity. Massive collection of MIT courseware available for free download and use.</p>	<p align="center">Yes</p>	<p align="center">Ongoing</p>	<p align="center">Free</p>	<p align="center"><a href="http://ocw.mit.edu/index.htm">http://ocw.mit.edu/index.htm</a></p>

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MIT Open Courseware	<p><b>MIT Course Number 15.358 The Software Business</b> - This subject is a seminar-style course aimed at anyone who is interested in founding a software company or working for a software company or company that uses software technology extensively as a senior manager, developer, or product/program manager. It is also appropriate for people interested in the industry or in working as an industry analyst. Many of the issues we discuss are highly relevant for companies whose businesses are heavily dependent on software, such as in e-business or financial services, or embedded software for industrial applications.</p>	Yes	On Demand	Free	<a href="http://ocw.mit.edu/courses/sloan-school-of-management/15-358-the-software-business-fall-2005/">http://ocw.mit.edu/courses/sloan-school-of-management/15-358-the-software-business-fall-2005/</a>
MIT Open Courseware	<p><b>Database, Internet, and Systems Integration Technologies</b> - This course addresses information technology fundamentals, including project management and software processes, data modeling, UML, relational databases and SQL. Topics covered include internet technologies, such as XML, web services, and service-oriented architectures. This course provides an introduction to security and presents the fundamentals of telecommunications and includes a project that involves requirements / design, data model, database implementation, website, security and data network. No prior programming experience required.</p>	Yes	On Demand	Free	<a href="http://ocw.mit.edu/courses/civil-and-environmental-engineering/1-264j-database-internet-and-systems-integration-technologies-fall-2013/">http://ocw.mit.edu/courses/civil-and-environmental-engineering/1-264j-database-internet-and-systems-integration-technologies-fall-2013/</a>
Microsoft	<p><b>Microsoft Virtual Academy</b> - Microsoft Virtual Academy (MVA) offers online Microsoft training delivered by experts to help technologists continually learn, with hundreds of courses, in 11 different languages. Microsoft's mission is to help developers, knowledgeable IT professionals and advanced students learn the latest technology, build their skills, and advance their careers. MVA is free of charge, and the entire service is hosted on Windows Azure.</p>	Yes	On Demand	Free	<a href="http://www.microsoftvirtualacademy.com">http://www.microsoftvirtualacademy.com</a>

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Stanford University	<p><a href="#">CS309A - Cloud Computing</a> is considered one of the most popular and valuable courses offered by Stanford's Center for Professional Development. In its eighth year, this unique class features eminent leaders who discuss their vision of the future of software-powered businesses. Guest industry experts are typically CEOs of public companies who are delivering applications, platform or compute and storage cloud based services.</p>	Yes	9/23/2014	<p>For Credit \$1,320.00 For Credit (member) \$1,120.00</p>	<p><a href="http://scpd.stanford.edu/search/publicCourseSearchDetails.do?method=load&amp;courseid=11815">http://scpd.stanford.edu/search/publicCourseSearchDetails.do?method=load&amp;courseid=11815</a></p>
University of California, Irvine Extension	<p><a href="#">Cloud Computing Platform as a Service (PaaS)</a> - The primary objective of this course is to provide the techniques and practices of cloud computing. This course will concentrate on building applications on Amazon Web Services, Google App Engine and Microsoft Windows Azure. This course will also teach the students the knowledge of designing and implementing cloud-based software system. In addition, this course will explore the current challenges facing cloud computing.</p>	Yes	10/13/2014	\$650	<p><a href="http://unex.uci.edu/courses/sectiondetail.aspx?year=2014&amp;term=FALL&amp;sid=00210">http://unex.uci.edu/courses/sectiondetail.aspx?year=2014&amp;term=FALL&amp;sid=00210</a></p>
University of Massachusetts - Lowell	<p><a href="#">Cloud Computing</a> - This course starts with an overview of modern distributed models, exposing the design principles, systems architecture, and innovative applications of parallel, distributed, and cloud computing systems. The course will focus on the creation and maintenance of high-performance, scalable, reliable systems, providing comprehensive coverage of distributed and cloud computing,</p>	Yes	9/3/2014	\$1,635.00	<p><a href="https://continuinged.uml.edu/CSCE/Current_Semsearch_detail.cfm?coursernum=94.565&amp;secnum=-031">https://continuinged.uml.edu/CSCE/Current_Semsearch_detail.cfm?coursernum=94.565&amp;secnum=-031</a></p>