## For CLOUD APPLICATIONS DEVELOPER, here's your Required Materials List (as of December 2019):

Content Type	Content Details	Pricing	Redeem, Access or Use		
Bundled Content	3 Microsoft Official Courses (MOCs), Lab Vouchers and MCP Exam Vouchers:	\$405.17 (bundle)	Submit Proof of Purchase (via ISTA 420) by end of Drop/Add period		
	MOC 20761, Querying Data with Transact-SQL MOC 20483, Programming in C# MOC 20486, Developing ASP.NET Core MVC 5 Web Applications MOC AZ-900, Microsoft Azure Fundamentals MOC NRU-00142, Developing Solutions for Microsoft Azure		You'll receive PRODUCT KEY via email; redeem at www.skillpipe.com to access epub		
	3 MCP Exam Vouchers		You'll receive Voucher Number via email; use at PearsonVue to schedule exam		
	4 Lab Vouchers				
Required Textbooks	Used throughout BOTH terms – Books at Microsoft Press available at special discount prices!				
Microsoft (Q), Server 2012 T-SQL Fundamentals	Ben-Gan, Itzik. T-SQL Fundamentals, 3d Edition. 2016. Microsoft Press, ISBN 987-1-5093-0200-0	\$49.99 (book)			
Microsoft Visual C# Step by Step	Sharp, John. Microsoft Visual C# Step by Step, 9th Edition Microsoft Press, ISBN 978-1-5093-0776-0	\$54.99 (book)			
Pro ASP.NET Core MVC 2	Freeman, Adam. Pro ASP.NET Core MVC 2, 7th edition Apress Books. ISBN 978-1-4842-3149-4 https://www.apress.com/us/book/9781484231494	\$59.99 (book)			
Supplemental Resources	(All from Microsoft Press, most available as epub/print bundles, or with Practice Exams at an MSSA Special Discount rate! Use Discount Code WESERVE3 for great savings.) All are useful throughout BOTH terms)				
Programming in C#	Exam Ref 70-483, Programming in C#, 2nd edition ISBN 978-1-5093-0698-5 (book)	\$39.99 (book)			
Developing ASPHET MVC-4 Web Applications Exam Ref 70-485	Exam Ref 70-486, Developing ASP.NET MVC Web Applications, (As of May 2019, Microsoft is still revising this exam ref, availability TBD)	TBD			
Oneying Models Son Service 2012  Training Kit	Training Kit (Exam Ref) 70-461, Querying Data with Transact-SQL, ISBN 978-0-7356-6605-4 (book)  NOTE: Microsoft has not yet published an Exam Ref for T-SQL 2016, corresponding to MOC 20761. However very little is that version-specific, so this is still useful as a study reference for the 70-761 exam.	\$69.99 (book)			
Microsoft Azure Fundamentals Exam Ref AZ-900	Exam Ref AZ-900 Microsoft Azure Fundamentals, 1st Edition. Jun. 2019. ISBN 978-0-13-573218-2	\$39.99 (book)			

**Directed Study Materials** are available free to students from the sources indicated. This list includes required and supplemental Directed Study materials for the entire two-term MSSA Server & Cloud cohort and indicates approximately when in each term and each class students should plan to make use of them.

Complete During	REQUIRED ACTIVITIES	Duration (hours)	Graded in Course	Role in Your Learning
Ongoing, Term 1	CodeLabs			Enhance
1 - 3	https://www.edx.org/course/logic- and-computational-thinking-3	12 hours	ISTA 220	Reinforce
7	docs.ms.com: Build a web API with  ASP.NET Core	1 hour	ISTA 322	Reinforce
10	docs.ms.com: Core Cloud Services - Introduction to Azure	<u>1 hour</u>	<u>ISTA 422</u>	Easy On-Ramp
10 - 11	MOC AZ-900T01: Microsoft Azure <u>Fundamentals</u>	10 hours	ISTA 422	Reinforce
10 - 11	edX: Algorithms and Data Structures	12 hours	ISTA 421	Reinforce
11 - 14	edX: Introduction to Python: Absolute Beginner	20 hours	ISTA 421	Easy On-Ramp / Enhance
Ongoing, Term 2				Reinforce

SUPPLEMENTAL Activities	Duration (hours)	Role in Your Learning
MVA C# for Absolute Beginners Bob Tabor	16 hours	Easy On-Ramp /
		Enhance
MPP Introduction to Design Thinking	20 hours	Reinforce
MPP Introduction to Developing International Software	60 hours	
Agile (TBD)		Reinforce
edX: DevOps for Developers: How to Get Started	12 hours	
edX: DevOps Testing	16 hours	Reinforce
MPP Writing Professional Code	16 hours	Reinforce
edX: Introduction to Python: Fundamentals	20 hours	Easy On-Ramp /
		Enhance
docs.ms.com: Azure Developer Learning Path for	45 hours	Reinforce
<u>Beginner</u>		