M.S. in Computer Science, Software Engineering Concentration **Degree Audit Worksheet**

Student Name: _____ Date: _____

University Core Requirements (18 CR)			**Grade**
CS 501	Database Management System	3CR	_____
CS 502	Computer Networks	3CR	_____
CS 503	Algorithm Development	3CR	_____
CS 504	Operating System	3CR	_____
CS 505	Object Oriented Programming Language	3CR	_____
CS 506	Computer Architecture and Organization	3CR	_____

Concentration Courses (6 CR)			**Grade**
CS 507	Data Structures and Algorithm	3CR	_____
CS 701	Capstone Project	3CR	_____
Software Engineering Electives (15 CR)			
CS 605	Software development methodologies	3CR	_____
CS 615	Software Quality Assurance	3CR	_____
CS 625	Software Project Management	3CR	_____
CS 635	Human Computer Interaction	3CR	_____
CS 645A OR CS 645B	Mobile Application Development OR Web Application Development	3CR	_____
CS 655	Artificial Intelligence and Machine Learning	3CR	_____
CS 665	Big Data Technologies	3CR	_____
EXP210	Co-op 1	0CR	_____
EXP220	Co-op 2	0CR	_____
EXP230	Co-op 3	0CR	_____

Total Number of Credits: 39

Notes:

1. To earn a Masters degree, all graduates must successfully complete a minimum of 39 credit hours.
2. Minimum of 15 credits must be taken at Centenary University.
3. All graduates must have a minimum cumulative grade point average of 2.0 or above.
4. All graduates must have a minimum of 2.0 GPA in their major(s).
5. Courses that are special topic listed in the title, typically ending with a 99, are repeatable. Courses are counted multiple times and do not replace grades of the previous special topic course.
6. Credits can only be shared between the core and the major or core and minor requirements. Shared credits within the core requirements is not allowed.

M.S. in Computer Science, Artificial Intelligence Concentration **Degree Audit Worksheet**

Student Name: _____ Date: _____

University Core Requirements (18 CR)			**Grade**
CS 501	Database Management System	3CR	_____
CS 502	Computer Networks	3CR	_____
CS 503	Algorithm Development	3CR	_____
CS 504	Operating System	3CR	_____
CS 505	Object Oriented Programming Language	3CR	_____
CS 506	Computer Architecture and Organization	3CR	_____

Concentration Courses (6 CR)			**Grade**
CS 507	Data Structures and Algorithm	3CR	_____
CS 701	Capstone Project	3CR	_____
Artificial Intelligence (15 CR)			_____
CS 606	Advance Machine Learning	3CR	_____
CS 616	Robotics and Automation	3CR	
CS 626	Natural Language Processing	3CR	
CS 636	Computer Vision	3CR	_____
CS 646	Reinforcement Learning	3CR	_____
CS 656	AI Programming and Tools	3CR	_____
CS 666	Advance Algorithms	3CR	_____
EXP210	Co-op 1	0CR	_____
EXP220	Co-op 2	0CR	_____
EXP230	Co-op 3	0CR	_____

_____
_____

Total Number of Credits: 39

Notes:

1. To earn a Masters degree, all graduates must successfully complete a minimum of 39 credit hours.
2. Minimum of 15 credits must be taken at Centenary University.
3. All graduates must have a minimum cumulative grade point average of 2.0 or above.
4. All graduates must have a minimum of 2.0 GPA in their major(s).
5. Courses that are special topic listed in the title, typically ending with a 99, are repeatable. Courses are counted multiple times and do not replace grades of the previous special topic course.
6. Credits can only be shared between the core and the major or core and minor requirements. Shared credits within the core requirements is not allowed.

M.S. in Computer Science, Full Stack Development Concentration **Degree Audit Worksheet**

Student Name: _____ Date: _____

University Core Requirements (18 CR)			**Grade**
CS 501	Database Management System	3CR	_____
CS 502	Computer Networks	3CR	_____
CS 503	Algorithm Development	3CR	_____
CS 504	Operating System	3CR	_____
CS 505	Object Oriented Programming Language	3CR	_____
CS 506	Computer Architecture and Organization	3CR	_____

Concentration Courses (6 CR)			**Grade**
CS 507	Data Structures and Algorithm	3CR	_____
CS 701	Capstone Project	3CR	_____
Full Stack Developer (15 CR)			
CS 607	Front-end Development	3CR	_____
CS 617	Back-end Development	3CR	_____
CS 627	Full stack Integration	3CR	_____
CS 637	Cloud and DevOps	3CR	_____
CS 647	ASP.Net application development	3CR	_____
CS 657	E-Commerce	3CR	_____
CS 667	Software Development Methodologies	3CR	_____
EXP210	Co-op 1	0CR	_____
EXP220	Co-op 2	0CR	_____
EXP230	Co-op 3	0CR	_____

Total Number of Credits: 39

Notes:

1. To earn a Masters degree, all graduates must successfully complete a minimum of 39 credit hours.
2. Minimum of 15 credits must be taken at Centenary University.
3. All graduates must have a minimum cumulative grade point average of 2.0 or above.
4. All graduates must have a minimum of 2.0 GPA in their major(s).
5. Courses that are special topic listed in the title, typically ending with a 99, are repeatable. Courses are counted multiple times and do not replace grades of the previous special topic course.
6. Credits can only be shared between the core and the major or core and minor requirements. Shared credits within the core requirements is not allowed.

M.S. in Computer Science, Data Science Concentration **Degree Audit Worksheet**

Student Name: _____ Date: _____

University Core Requirements (18 CR)			**Grade**
CS 501	Database Management System	3CR	_____
CS 502	Computer Networks	3CR	_____
CS 503	Algorithm Development	3CR	_____
CS 504	Operating System	3CR	_____
CS 505	Object Oriented Programming Language	3CR	_____
CS 506	Computer Architecture and Organization	3CR	_____

Concentration Courses (6 CR)			**Grade**
CS 507	Data Structures and Algorithm	3CR	_____
CS 701	Capstone Project	3CR	_____
Data Science (15 CR)			
CS 608	Statistical Methods	3CR	_____
CS 618	Applied Machine Learning	3CR	_____
CS 628	Data Visualization	3CR	_____
CS 638	Big Data Technologies	3CR	_____
CS 648	Business Intelligence	3CR	_____
CS 658	Programming for Data Science	3CR	_____
CS 668	Artificial Intelligence	3CR	_____
EXP210	Co-op 1	0CR	_____
EXP220	Co-op 2	0CR	_____
EXP230	Co-op 3	0CR	_____

Total Number of Credits: 39

Notes:

1. To earn a Masters degree, all graduates must successfully complete a minimum of 39 credit hours.
2. Minimum of 15 credits must be taken at Centenary University.
3. All graduates must have a minimum cumulative grade point average of 2.0 or above.
4. All graduates must have a minimum of 2.0 GPA in their major(s).
5. Courses that are special topic listed in the title, typically ending with a 99, are repeatable. Courses are counted multiple times and do not replace grades of the previous special topic course.
6. Credits can only be shared between the core and the major or core and minor requirements. Shared credits within the core requirements is not allowed.

M.S. in Computer Science, Cloud Computing Concentration **Degree Audit Worksheet**

Student Name: _____ Date: _____

University Core Requirements (18 CR)			Grade
CS 501	Database Management System	3CR	_____
CS 502	Computer Networks	3CR	_____
CS 503	Algorithm Development	3CR	_____
CS 504	Operating System	3CR	_____
CS 505	Object Oriented Programming Language	3CR	_____
CS 506	Computer Architecture and Organization	3CR	_____

Concentration Courses (6 CR)			Grade
CS 507	Data Structures and Algorithm	3CR	_____
CS 701	Capstone Project	3CR	_____

Data Science (15 CR)			
CS 604	Cloud Architecture	3CR	_____
CS 614	Cloud Database Management	3CR	_____
CS 624	Continuous Integration and Continuous Deployment	3CR	_____
CS 634	Serverless computing	3CR	_____
CS 644	Cloud Application Development	3CR	_____
CS 654	Cloud Service Management	3CR	_____
CS 664	Cloud Based Data Analytics	3CR	_____
EXP210	Co-op 1	0CR	_____
EXP220	Co-op 2	0CR	_____
EXP230	Co-op 3	0CR	_____

Total Number of Credits: 39

Notes:

1. To earn a Masters degree, all graduates must successfully complete a minimum of 39 credit hours.
2. Minimum of 15 credits must be taken at Centenary University.
3. All graduates must have a minimum cumulative grade point average of 2.0 or above.
4. All graduates must have a minimum of 2.0 GPA in their major(s).
5. Courses that are special topic listed in the title, typically ending with a 99, are repeatable. Courses are counted multiple times and do not replace grades of the previous special topic course.
6. Credits can only be shared between the core and the major or core and minor requirements. Shared credits within the core requirements is not allowed.

M.S. in Computer Science, Cyber Security Concentration **Degree Audit Worksheet**

Student Name: _____ Date: _____

University Core Requirements (18 CR)			**Grade**
CS 501	Database Management System	3CR	_____
CS 502	Computer Networks	3CR	_____
CS 503	Algorithm Development	3CR	_____
CS 504	Operating System	3CR	_____
CS 505	Object Oriented Programming Language	3CR	_____
CS 506	Computer Architecture and Organization	3CR	_____

Concentration Courses (6 CR)			**Grade**
CS 507	Data Structures and Algorithm	3CR	_____
CS 701	Capstone Project	3CR	_____

Data Science (15 CR)			
CS 603	Network Security	3CR	_____
CS 613	Cryptography and Encryption	3CR	_____
CS 623	Penetration Testing and Ethical Hacking	3CR	_____
CS 633	Cyber Intelligence and Threat Hunting	3CR	_____
CS 643	Ethical and Legal issues in Cyber Security	3CR	_____
CS 653	Application Security	3CR	_____
CS 663	Risk Management	3CR	_____
EXP210	Co-op 1	0CR	_____
EXP220	Co-op 2	0CR	_____
EXP230	Co-op 3	0CR	_____

Total Number of Credits: 39

Notes:

1. To earn a Masters degree, all graduates must successfully complete a minimum of 39 credit hours.
2. Minimum of 15 credits must be taken at Centenary University.
3. All graduates must have a minimum cumulative grade point average of 2.0 or above.
4. All graduates must have a minimum of 2.0 GPA in their major(s).
5. Courses that are special topic listed in the title, typically ending with a 99, are repeatable. Courses are counted multiple times and do not replace grades of the previous special topic course.
6. Credits can only be shared between the core and the major or core and minor requirements. Shared credits within the core requirements is not allowed.