

9 – 12 ROADMAP TO HIGH SCHOOL GRADUATION

Subject		Graduation Requirements		Terms Completed							
		TERMS	CREDITS	1	2	3	4	5	6	7	8
Credit Requirements	English Language Arts	8 terms	8								
	Social Studies	8 terms: Global History – 4	4								
		U.S. History – 2	2								
		Part in Gov't – 1	1								
		Economics - 1	1								
	Mathematics	6 terms	6								
	Science	6 terms	6								
	Language Other Than English	2 terms	2								
	The Arts	2 terms	2								
	Health Education	1 term	1								
Physical Education	8 terms @ .50	4									
CTE/Electives	7 terms	7									
Exams	English Language Arts	65 + on ___ English Language Arts									
	Math	65+ on ___ Algebra I or ___ Geometry or ___ Algebra II									
	Social Studies	65+ on ___ US History or ___ Global History & Geography									
	Science	65+ on ___ LE or ___ Earth Science or ___ Chemistry or ___ Physics									
	+ 1 Option	65+ on ___ (additional) Regents: _____ or ___ CDOS									

Type of Diploma (more info at schools.nyc.gov):

- Local Diploma (55+ on Regents Examinations)
- Regents Diploma (65+ on Regents Examinations)
- Advanced Regents Diploma

Diploma Endorsements (more available at schools.nyc.gov):

- CTE Endorsement
- Honors Designation (90+ on required exams)
- Service Endorsement (100+ service hours)
- CDOS 4 + 1 Option

9 – 14 WORK-BASED LEARNING CONTINUUM

Experiences	CAREER AWARENESS	CAREER EXPLORATION	CAREER PREPARATION	GRAND TOTAL
	HS Years 1 & 2	HS Years 3 & 4	College Years 5 & 6	
Classroom Learning	Career Awareness Lessons Career Research Guest Speakers Professional Skills Development	Career Exploration Lessons Career Guidance Career-Related Projects Industry Research	Career Coaching Occupational Training Technical Skills Training Work Readiness Activities	Minimum 324 hours
CTE Coursework	Intro to Engineering & Design Civil Engineering & Design	*Declare Major* Engineering Design & Dev't CTE Elective	Civil Engineering A.A.S. Architectural Technology, A.A.A. Construction Mgmt, A.A.S.	216 hours (NYS CDOS)
Community Activities	Career Fairs College Visits Community Resource Awareness	Community Service Mock Interview College Visits Out-of-School-Time Activities Industry Certification	Volunteering Competitions Industry Certification	100 hours (DOE Seal of Recognition for Service)
Workplace Learning	Workplace Challenge Career Mentor Workplace Tour	Workplace Challenge Informational Interview Job Shadow Internship	Workplace Challenge Internship Work Experience/Co-Op Apprenticeship	54 hours (NYS CDOS)
Subtotal Hours	231 hours	231 hours	232 hours	> 694 hours

11 – 14 ROADMAP TO ASSOCIATE DEGREE (A.A.S)

Architectural Technology, A.A.S.		Civil Engineering Technology, A.A.S.		Construction Management Technology, A.A.S.	
GENERAL EDUCATION & FLEXIBLE CORE	23	GENERAL EDUCATION & FLEXIBLE CORE	35 - 36	GENERAL EDUCATION & FLEXIBLE CORE	30-31
AFR 1321 Black Theatre	3	AFR 1321 Black Theatre	3	AFR 1321 Black Theatre	3
ENG 1101 English Comp I *(Preq AFR 1231)	3	ENG 1101 English Comp I *(Preq AFR 1231)	3	ENG 1101 English Comp I *(Preq AFR 1231)	3
ENG 1121 English Comp II *(Preq ENG 1101)	3	ENG 1121 English Comp II *(Preq ENG 1101)	3	ENG 1121 English Comp II *(Preq ENG 1101)	3
COM 1330 Public Speaking (Preq CUNY Proficiency in reading & writing)	3	COM 1330 Public Speaking (Preq CUNY Proficiency in reading & writing)	3	COM 1330 Public Speaking (Preq CUNY Proficiency in reading & writing)	3
MAT 1275 OR 1375	4	MAT 1275	4	MAT 1275 OR 1375	4
MAT 1375 OR 1475	4	MAT 1375	4	MAT 1375 OR 1475	4
ECON 1101 Macroeconomics	3	MAT 1475	4	ECON 1101 Macroeconomics	3
MAJOR TECHNOLOGY COURSES	48	MAT 1575	4	PHYS 1433 OR 1441	4 OR 5
ARCH 1112 Architectural Design I: Foundations and Visual Studies	5	ECON 1101 Macroeconomics	3	MAJOR TECHNOLOGY COURSES	42
ARCH 1121 History of World Architecture (Preq or Co-Req ENG 1101)	2	PHYS 1433 OR 1441	4 OR 5	CMCE 1110 Construction Drawings I	2
ARCH 1231 Building Technology I (Preq CUNY proficiency in Reading and Writing; ENG 1101)	3	MAJOR TECHNOLOGY COURSES	41 - 42	CMCE 1114 Materials and Methods of Construction I	3
ARCH 1212 Architectural Design II: Foundations and Visual Studies (Preq ARCH 1101 OR ARCH 1210 and 1191)	5	CMCE 1110 Construction Drawings I	2	CMCE 1115 Statics (Preq MATH 1275 and Pre/Co-Req PHYS 1433)	3
ARCH 2331 Building Technology II (Preq ARCH 1231 or 1130; Preq or Co-Req ARCH 1112 and MAT 1275 or higher)	3	CMCE 1211 Construction Drawings II Computer-Aided Drawing (CAD) (Preq CMCE 1110)	2	CMCE 1211 Construction Drawings II Computer-Aided Drawing (CAD) (Preq CMCE 1110)	2
ARCH 1250 Site Planning (Preq ARCH 1101 and MAT 1275 or higher)	2	PHYS 1434 OR 1442 (Preq PHYS 1433 OR 1441)	4 OR 5	CMCE 1215 Strength of Materials (Preq CMCE 1115)	3
ARCH 1291 Visual Studies II (Preq ARCH 1110 and ARCH 1191; Co-Req ARCH 1210)	2	CMCE 1115 Statics (Preq MATH 1275 and Pre/Co-Req PHYS 1433)	3	CMCE 1221 Construction Management I (Preq CUNY proficiency in Reading and Writing; CMCE 1110 and CMCE 1114)	3
ARCH 2312 Architectural Design III (Preq ARCH 1210 OR ARCH 1210 and 1291; Preq or Co-Req ARCH 1250)	5	CMCE 1215 Strength of Materials (Preq CMCE 1115)	2	CMCE 1222 Surveying I (Preq MATH 1275, CMCE 1110, and CMCE 1211)	3
ARCH 2321 History of Architecture 1900 to the Present (Preq ENG 1101 and ARCH 1121)	3	CMCE 1222 Surveying I (Preq MATH 1275, CMCE 1110, and CMCE 1211)	3	CMCE 1224 Materials and Methods of Construction II (Preq CUNY proficiency in Reading and Writing; CMCE 2315)	3
ARCH 2431 Building Technology III (Preq MAT 1275 or higher; ARCH 2331 or 1230)	4	CMCE 2306 Materials Testing Laboratory (Preq CUNY proficiency in Reading and Writing; CMCE 2315)	2	CMCE 2306 Materials Testing Laboratory (Preq CUNY proficiency in Reading and Writing; CMCE 2315)	2
ARCH 2370 Architectural Environmental Systems (Preq ARCH 2331)	3	CMCE 2315 Elements of Structural Design – Steel (Preq CMCE 1215)	3	CMCE 2315 Elements of Structural Design – Steel (Preq CMCE 1215)	3
ARCH 2412 Architectural Design IV (Preq ARCH 1250, 2312, or 2310; Preq or Co-Req ARCH 2321, 2331, or 1230)	5	CMCE 2322 Surveying II (Preq CMCE 1222)	3	CMCE 2319 Building Service Systems (Preq CMCE 1224)	2
ARCH 3531 Building Technology IV (Preq ARCH 2431)	3	CMCE 2351 Fluid Mechanics (Preq CMCE 1215; Co-Req CMCE 2351L)	4	CMCE 2321 Construction Management II (Preq CMCE 1110, CMCE 1221, and CMCE 1224)	3
ARCH 2480 Principles of Stability in Structures (Preq MAT 1275 or higher and ENG 1101; Preq or Co-Req PHYS 1433 or higher)	3	CMCE 2410 Construction Drawings III (Preq CMCE 1110, CMCE 1211, CMCE 1222, and CMCE 2315)	2	CMCE 2410 Construction Drawings III (Preq CMCE 1110, CMCE 1211, CMCE 1222, and CMCE 2315)	2
TOTAL CREDITS	71	CMCE 2416 Elements of Structural Design – Concrete (Preq CMCE 1211 and CMCE 2315)	3	CMCE 2412 Construction Estimating (Preq CMCE 2321)	2
		CMCE 2454 Applied Hydraulics – Water Supply (Preq CMCE 2351 and CMCE 2351L)	2	CMCE 2416 Elements of Structural Design – Concrete (Preq CMCE 1211 and CMCE 2315)	3
		CMCE 2456 Soil Mechanics (Preq CMCE 2351)	3	CMCE 2421 Construction Management III (Preq CMCE 2321)	3
		CMCE 2457 Construction Techniques in Civil Engineering (Preq CMCE 1222)	3	TOTAL CREDITS	72 - 73
		TOTAL CREDITS	76 - 77		