

Alief ISD 4 Year Endorsement Course Options

Arts & Humanities

Endorsement : Arts & Humanities		Specialization: Art	Course Number
9th	Art I		0600
10th	Drawing I		0604
11th	Drawing II		0621
12th	Drawing III		6000

Endorsement : Arts & Humanities		Specialization: Art	Course Number
9th	Art I		0600
10th	Painting I		0605
11th	Painting II		0612
12th	Painting III		6001

Endorsement : Arts & Humanities		Specialization: Art	Course Number
9th	Art I		0600
10th	Sculpture I		0607
11th	Sculpture II		0620
12th	Sculpture III		6003

Endorsement : Arts & Humanities		Specialization: Art	Course Number
9th	Art I		0600
10th	Photography I		0609
11th	Photography II		0613
12th	Photography III		6002

Endorsement : Arts & Humanities		Specialization: Art	Course Number
9th	Art I		0600
10th	Ceramics I		0606
11th	Ceramics II		0619
12th	Ceramics III		0626

Endorsement : Arts & Humanities		Specialization: Art	Course Number
9th	Art I		0600
10th	Digital Art and Media I		0602
11th	Digital Art and Media II		0699
12th	Adv. Digital Art & Media III or Adv. Commercial Art/ Graphic Design IV		0682/0623

Endorsement : Arts & Humanities		Specialization: Art	Course Number
9th	Art I		0600
10th	Jewelry I		0610
11th	Jewelry II		0608
12th	Commercial Art/Graphic Design IV		0623

Endorsement : Arts & Humanities		Specialization: Art	Course Number
9th	Art I		0600
10th	Art & Media Communication I		6853AM
11th	Art & Media Communications II		
12th	Printmaking I		0601

Alief ISD 4 Year Endorsement Course Options

Arts & Humanities

Endorsement : Arts & Humanities		Specialization: Art	Course Number
9th	Pre-AP Art I		
10th	Pre-AP Ceramics/Sculpture I		
11th	Pre- AP Painting I		
12th	AP Art History		

Endorsement : Arts & Humanities		Specialization: Art	Course Number
9th	Pre-AP Art I		0600AP
10th	Drawing I		0604
11th	Pre-AP Drawing II		0621
12th	AP Art Studio-Drawing Portfolio IV		6000A

Endorsement : Arts & Humanities		Specialization: Music	Course Number
9th	Marching Band I		MB1
10th	Marching Band II		MB2
11th	Marching Band III		MB3
12th	Marching Band IV		MB4

Endorsement : Arts & Humanities		Specialization: Music	Course Number
9th	Jazz Band I		JB1
10th	Jazz Band II		JB2
11th	Jazz Band III		JB3
12th	Jazz Band IV		JB4

Endorsement : Arts & Humanities		Specialization: Music	Course Number
9th	Hand Bells I		HB1
10th	Hand Bells II		HB2
11th	Hand Bells III		HB3
12th	Hand Bells IV		HB4

Endorsement : Arts & Humanities		Specialization: Music	Course Number
9th	Concert Orchestra I		CO1
10th	Concert Orchestra II		CO2
11th	Concert Orchestra III		CO3
12th	Concert Orchestra IV		CO4

Endorsement : Arts & Humanities		Specialization: Music	Course Number
9th	Chorale I		C1
10th	Chorale II		C2
11th	Chorale III		C3
12th	Chorale IV		C4

Endorsement : Arts & Humanities		Specialization: Music	Course Number
9th	Music Theory I		MT1
10th	Music Theory II		MT2
11th	Piano Techniques		PT
12th	AP Music Theory		MTA

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Arts & Humanities

Endorsement : Arts & Humanities		Specialization: Dance	Course Number
9th	Pre-Drill or Drill Team I		0599/0611
10th	Drill Team II		0612DD
11th	Drill Team III		0613DD
12th	Drill Team IV		0614DD

Endorsement : Arts & Humanities		Specialization: Dance	Course Number
9th	Alief Jazz Ballet I		0615
10th	Alief Jazz Ballet II		0616
11th	Alief Jazz Ballet III		0617
12th	Alief Jazz Ballet IV		0618

Endorsement : Arts & Humanities		Specialization: Theatre Arts	Course Number
9th	Theatre Arts I		0650
10th	Theatre Arts II		0652
11th	Advanced Theatre Arts III		0653
12th	Advanced Theatre Arts IV		0654

Endorsement : Arts & Humanities		Specialization: Theatre Arts	Course Number
9th	Theatre Arts I		0650
10th	Theatre Production I		0656
11th	Theatre Production II		0658
12th	Theatre Production III		0659

Endorsement : Arts & Humanities		Specialization: Theatre Arts	Course Number
9th	Theatre Arts I		0650
10th	Technical Theatre I		0660
11th	Technical Theatre II		662
12th	Advanced Technical Theatre III		663

Endorsement : Arts & Humanities		Specialization: English	Course Number
9th	Elective / Student Choice		
10th	Practical Writing		0177
11th	Creative Writing		0108
12th	English IV / Humanities / Comm. Appl./ Independent Study In English		0122

Endorsement : Arts & Humanities		Specialization: Social Studies	Course Number
9th	World Geography or World History		0300 / 0302
10th	World Geography or World History		0300 /0302
11th	US History		0304
12th	GOVT & ECO		0310
1 additional credit	Psychology / Sociology / AP Human Geography / Special Topics		0313 / 0312 / 0330

Endorsement : Arts & Humanities		Specialization: Social Studies	Course Number
9th	AP Human Geography		
10th	AP World History		
11th	AP US History or Dual Credit US History		
12th	AP GOV & ECO or Dual Credit GOV & ECO		
1 additional credit	Psychology or AP Psychology/ Sociology /Special Topics		0313 or 0323 / 0312

Alief ISD 4 Year Endorsement Course Options

Arts & Humanities

Endorsement : Arts & Humanities		Specialization: LOTE	Course Number
9th	Spanish I or Spanish I Native Speakers		0728 / 728NS
10th	Spanish II or Spanish II Native Speakers		0730 / 0731
11th	Spanish III or Pre-AP Spanish III		0732 / 0733
12th	AP Spanish IV or AP Spanish V or AP Spanish VI		0735 / 0736 / 0737

Endorsement : Arts & Humanities		Specialization: LOTE	Course Number
9th	French I		0720
10th	French II		0722
11th	French III or Pre-AP French III		0724 / 0725
12th	AP French IV or AP French V		0726A / 0727A

Endorsement : Arts & Humanities		Specialization: LOTE	Course Number
9th	Chinese I		0751
10th	Chinese II		0752
11th	Chinese III or Pre-AP Chinese III		0753
12th	AP Chinese IV or AP Chinese V		0754 / CHIN5

Endorsement : Arts & Humanities		Specialization: LOTE	Course Number
9th	Arabic I		0766
10th	Arabic II		0767
11th	Spanish I		0728
12th	Spanish II		0730

Endorsement : Arts & Humanities		Specialization: LOTE	Course Number
9th	Spanish I		0728
10th	Spanish II		0730
11th	French I		0720
12th	French II		0722

Endorsement : Arts & Humanities		Specialization: LOTE	Course Number
9th	Chinese I		0751
10th	Chinese II		0752
11th	Arabic I		0766
12th	Arabic II		0767

Endorsement : Arts & Humanities		Specialization: LOTE	Course Number
9th	French I		0720
10th	French II		0722
11th	Chinese I		0751
12th	Chinese II		0752

Endorsement : Arts & Humanities		Specialization: LOTE	Course Number
9th	Chinese I		0751
10th	Chinese II		0752
11th	French I		0720
12th	French II		0722

Alief ISD 4 Year Endorsement Course Options

Business & Industry

Endorsement: Business & Industry		Specialization: Agriculture Science Veterinary	Course Number
9th	Principles of Agriculture, Food & Natural Resources (1.0)		12000
10th	Equine Science (.5) and Small Animal Management (.5)		12001 12002
11th	Veterinary Medicine Applications with Lab Experience (2.0)		12004
12th	Practicum in Ag: Vet Tech (2.0)		12006

Endorsement: Business & Industry		Specialization: Agriculture Science Animal Systems	Course Number
9th	Principles of Agriculture, Food & Natural Resources (1.0)		12000
10th	Equine Science (.5) and Small Animal Management (.5)		12001 12002
11th	Livestock Production (1.0)		12003
12th	Extended Practicum in Agriculture, Food, & Natural Resources (3.0)		12018

Endorsement: Business & Industry		Specialization: Agriculture Science Floral Design	Course Number
9th	Principles of Agriculture, Food & Natural Resources (1.0)		12000
10th	Landscape Design & Management (.5) and Turf Grass Management (.5)		12008 12009
11th	Principles & Elements of Floral Design (1.0)		12011
12th	Extended Practicum in Agriculture, Food, & Natural Resources (3.0) or PBR- Floral Design (1.)		12018 12019

Endorsement: Business & Industry		Specialization: Agriculture Science Plant Systems	Course Number
9th	Principles of Agriculture, Food & Natural Resources (1.0)		12000
10th	Landscape Design & Management (.5) and Turf Grass Management (.5)		12008 12009
11th	Horticulture Science (1.0)		12010
12th	Extended Practicum in Agriculture, Food, & Natural Resources (3.0)		12018

Endorsement: Business & Industry		Specialization: Agriculture Science Wildlife	Course Number
9th	Principles of Agriculture, Food & Natural Resources (1.0)		12000
10th	Wildlife, Fisheries & Ecology Management (1.0)		12012
11th	Range Ecology & Management (1.0)		12013
12th	Extended Practicum in Agriculture, Food, & Natural Resources (3.0)		12018

Alief ISD 4 Year Endorsement Course Options

Business & Industry

Endorsement: Business & Industry		Specialization: Architecture/Construction Architecture	Course Number
9th	Principles of Architecture (1.0)		12035
10th	Architectural Design (1.0)		12036
11th	Architectural Design II (2.0)		12037
12th	Practicum in Architecture Design (2.0)		12038
	or Extended Practicum in Architectural Design (3.0)		12039

Endorsement: Business & Industry		Specialization: Architecture/Construction General Construction	Course Number
9th	Principles of Construction (1.0)		12030
10th	Construction Technology (2.0)		12031
11th	Construction Technology II (2.0)		12032
12th	Practicum in Construction Technology (2.0)		12034
	or Extended Practicum in Construction Technology (3.0)		12046

Endorsement: Business & Industry		Specialization: Architecture/Construction Mill & Cabinet Making	Course Number
9th	Principles of Construction (1.0)		12030
10th	Construction Technology (2.0)		12031
11th	Mill & Cabinet Making (2.0)		12033
12th	Practicum in Construction Technology (2.0) or Extended Practicum in Construction Technology (3.0) or		12034
	Construction Technology (3.0) or		12046
	Construction Technology II (2.0)		12032

Business & Industry

Endorsement: Business & Industry		Specialization: Arts, A/V Tech. & Communication Audio Video Program	Course Number
9th	Principles of Arts, A/V Technology & Communication (1.0)		12055
10th	Audio Video Production I (1.0)		12056
11th	Audio Video Production II with A/V Lab II (2.0)		12057
12th	Practicum in Audio Video Production (2.0)		12059
	or Extended Practicum in Audio Video Production (3.0)		12077

Endorsement: Business & Industry		Specialization: Arts, A/V Tech. & Communication Graphic Design	Course Number
9th	Principles of Arts, A/V Technology & Communication (1.0)		12055
10th	Graphic Design and Illustration (1.0)		12061
11th	Graphic Design & Illustration II with Lab (2.0)		12062
12th	Practicum in Graphic Design (2.0)		12064
	or Extended Practicum in Graphic Design (3.0)		12065

Alief ISD 4 Year Endorsement Course Options

Business & Industry

Endorsement: Business & Industry		Specialization: Arts, A/V Tech. & Communication Video Game Design	Course Number
9th	Principles of Arts, A/V Technology & Communication (1.0)		12055
10th	Audio Video Production I (1.0) or Graphic Design and Illustration (1.0)		12061
11th	Video Game Development (1.0)		12060
12th	Audio Video Production II with A/V Lab II (2.0)		12057
	or Graphic Design & Illustration II with Lab		12062

Endorsement: Business & Industry		Specialization: Arts, A/V Tech. & Communication Commercial Photography	Course Number
9th	Principles of Arts, A/V Technology & Communication (1.0)		12055
10th	Commercial Photography I (1.0)		12066
11th	Commercial Photography II with Lab (2.0)		12067
12th	Practicum in Commercial Photography (2.0)		12068
	or Extended Practicum in Commercial Photography (3.0)		12070

Endorsement: Business & Industry		Specialization: Arts, A/V Tech. & Communication Fashion Design	Course Number
9th	Principles of Arts, A/V Technology & Communication (1.0)		12055
10th	Fashion Design (1.0)		12071
11th	Fashion Design II with Lab (2.0)		12072
12th	Practicum in Fashion Design (2.0)		12074
	or Extended Practicum in Fashion Design (3.0)		12075

Business & Industry

Endorsement: Business & Industry		Specialization: Business Management & Administration Business Information Management	Course Number
9th	Principles of Business, Marketing & Finance (1.0)		12080
10th	Business Information Management I (1.0)		12081
11th	Business Information Management II (1.0)		12083
12th	Extended Practicum in Business Management (3.0)		12090

Endorsement: Business & Industry		Specialization: Business Management & Administration Business Management <i>with Work-Based Learning</i>	Course Number
9th	Principles of Business, Marketing & Finance (1.0)		12080
10th	Business Information Management I (1.0)		12081
11th	Business Management (1.0)		12085
12th	Extended Practicum in Business Management (3.0)		12090

Alief ISD 4 Year Endorsement Course Options

Endorsement: Business & Industry		Specialization: Business Management & Administration Business Management <i>without</i> Work-Based Learning	Course Number
9th	Principles of Business, Marketing & Finance (1.0)		12080
10th	Business Information Management I (1.0)		12081
11th	1 class from: Business Law (1.0) Business Management (1.0) BIM II (1.0) or 2 classes from: Virtual Business (.5) Global Business (.5) Human Resource Mgmt. (.5)		12084 12085 12083 12087 12086 12088
12th	Another Business Class from 11 th grade list (1.0)		

Endorsement: Business & Industry		Specialization: Business Management & Administration Basic Business <i>with</i> Work-Based Learning	Course Number
9th	Principles of Business, Marketing & Finance (1.0)		12080
10th	Business Information Management I (1.0)		12081
11th	Extended Practicum in Business Management First Time Taken (3.0)		12090
12th	Extended Practicum in Business Management Second Time Taken (3.0)		12091

Endorsement: Business & Industry		Specialization: Business Management & Administration Business Law	Course Number
9th	Principles of Business, Marketing & Finance (1.0)		12080
10th	Business Information Management I (1.0)		12081
11th	Business Law (1.0)		12084
12th	Extended Practicum in Business Management (3.0)		12090

Endorsement: Business & Industry		Specialization: Business Management & Administration Global/Virtual Business or Human Resources	Course Number
9th	Principles of Business, Marketing & Finance (1.0)		1241
10th	Business Information Management I (1.0)		1246
11th	Choose <u>2</u> of the 3 classes: Global Business (.5) Virtual Business (.5) Human Resource Mgmt. (.5)		12087 12086 12088
12th	Extended Practicum in Business Management (3.0)		12090

Alief ISD 4 Year Endorsement Course Options

Business & Industry

Endorsement: Business & Industry		Specialization: Finance Investments	Course Number
9th	Principles of Business, Marketing & Finance (1.0)		12080
10th	Securities and Investments (1.0)		12094
11th	Financial Analysis (1.0)		12095
12th	Extended Practicum in Business Management (3.0)		12090

Endorsement: Business & Industry		Specialization: Finance Accounting	Course Number
9th	Principles of Business, Marketing & Finance (1.0)		12080
10th	Accounting I (1.0)		12093
11th	Accounting II (1.0)		12096
12th	Extended Practicum in Business Management (3.0)		12090

Business & Industry

Endorsement: Business & Industry		Specialization: Hospitality & Tourism Hotel Management	Course Number
9th	Principles of Hospitality and Tourism (1.0)		12150
10th	Hotel Management (1.0)		12152
11th	Hospitality Services (Hotel Internship) (2.0)		12153
12 th	Practicum in Hospitality Services (2.0)		12154
	<u>or</u> Extended Practicum in Hospitality Services (3.0)		12155

Endorsement: Business & Industry		Specialization: Hospitality & Tourism Travel and Tourism	Course Number
9th	Principles of Hospitality and Tourism (1.0)		12150
10th	Travel and Tourism Management (1.0)		12151
11th	Hospitality Services (Hotel Internship) (2.0)		12153
12 th	Practicum in Hospitality Services (2.0)		12154
	<u>or</u> Extended Practicum in Hospitality Services (3.0)		12155

Alief ISD 4 Year Endorsement Course Options

Business & Industry

Endorsement: Business & Industry		Specialization: Hospitality & Tourism Culinary Arts	Course Number
9th	Principles of Hospitality and Tourism (1.0)		12150
10th	Culinary Arts (2.0)		12156
11th	Advanced Culinary Arts (2.0)		12157
12th	Practicum in Culinary Arts (2.0)		12160
	<u>or</u> Extended Practicum in Culinary Arts (3.0)		12161

Endorsement: Business & Industry		Specialization: Hospitality & Tourism Baking & Pastry	Course Number
9th	Principles of Hospitality and Tourism (1.0)		12150
10th	Culinary Arts (2.0)		12156
11th	Baking & Pastry with Baking and Pastry Lab (2.0 blocked)		12158
			12159
12th	Advanced Culinary Arts (2.0) <u>or</u>		12157
	Practicum in Culinary Arts (2.0) <u>or</u>		12160
	Extended Practicum in Culinary Arts (3.0)		12161

Business & Industry

Endorsement: Business & Industry		Specialization: Information Technology Computer Technician	Course Number
9th	Principles of Information Technology (1.0)		12175
10th	Computer Maintenance with Lab (2.0)		12176
11th	Networking with Lab (2.0)		12178
12th	Computer Technician Practicum (2.0)		12180
	<u>or</u> Extended Computer Technician Practicum (3.0)		12181

Endorsement: Business & Industry		Specialization: Information Technology Web Technologies	Course Number
9th	Principles of Information Technology (1.0)		12175
10th	Digital Media (1.0)		12184
11th	Web Technologies (1.0)		1298
			1305
12th	Practicum in Information Technology (2.0)		12186
	<u>or</u> Extended Practicum in Information Technology (3.0)		12187

Alief ISD 4 Year Endorsement Course Options

Business & Industry

Endorsement: Business & Industry		Specialization: Manufacturing Welding	Course Number
9th	Principles of Manufacturing (1.0)		12200
10th	Welding I (2.0)		12205
11th	Welding II (2.0)		12206
12th	Practicum in Manufacturing Welding (2.0) or		12207
	Extended Practicum in Manufacturing (3.0)		12208

Endorsement: Business & Industry		Specialization: Manufacturing Manufacturing	Course Number
9th	Principles of Manufacturing (1.0)		12200
10th	Manufacturing Engineering I		12201
	and Manufacturing Engineering II (2.0 blocked)		12202
11th	Practicum in Manufacturing (2.0)		12207
12th	Practicum in Manufacturing Engineering (2 nd Time Taken) (2.0)		12210
	or Extended Practicum in Manufacturing (3.0)		12280

Business & Industry

Endorsement: Business & Industry		Specialization: Marketing, Sales & Services Marketing with Other Opportunities	Course Number
9th	Principles of Business, Marketing and Finance (1.0)		12080
10th	Choose 2 classes (1.0):		
	Advertising (.5)		12100
	Sports & Entertainment Marketing (.5)		12101
	Social Media Marketing (.5)		12102
11th	Fashion Marketing (.5)		12103
	Entrepreneurship (1.0)		12104
12th	Practicum in Marketing (2.0) or Extended Practicum in Marketing (3.0)		12105
	or Advanced course from Business Cluster (1.0)		12106

Endorsement: Business & Industry		Specialization: Marketing, Sales & Services Marketing with Work-Based Learning	Course Number
9th	Principles of Business, Marketing and Finance (1.0)		12080
10th	Advertising (.5)		12100
	Sports & Entertainment Marketing (.5)		12101
	Social Media Marketing (.5)		12102
	Fashion Marketing (.5)		12103
11th	Entrepreneurship (1.0)		12104
12th	Practicum in Marketing (2.0)		
	or Extended Practicum in Marketing (3.0)		12105 12106

Alief ISD 4 Year Endorsement Course Options

Business & Industry

Endorsement: Business & Industry	Specialization: Marketing, Sales & Services Marketing without Work-Based Learning	Course Number
9th	Principles of Business, Marketing and Finance (1.0)	12080
10th	Advertising (.5) Sports & Entertainment Marketing (.5) Social Media Marketing (.5) Fashion Marketing (.5)	12100 12101 12102 12103
11th	Take remaining 2 Marketing classes from list above or Course from Business Cluster (1.0) or Technology Credit	
12th	Entrepreneurship (1.0)	12104

Endorsement: Business & Industry	Specialization: Transportation, Distribution, & Logistics	Course Number
9th	Introduction to Transportation Careers (.5)	12240
10th	Energy Power & Transportation and Automotive Basics (2.0 blocked)	12241 12242
11th	Automotive Technology I: Maintenance & Light Repair (2.0)	12243
12 th	Automotive Technology II: Automotive Services (2.0) or Extended Practicum in Transportation Services (3.0)	12244 12247

Alief ISD 4 Year Endorsement Course Options

Business & Industry

Endorsement : Business & Industry		Specialization: English	Course Number
9th	Journalism		0130
10th	Advanced Journalism: Newspaper I		0132
11th	Advanced Journalism: Newspaper II		0134
12th	Advanced Journalism: Newspaper III		0135

Endorsement : Business & Industry		Specialization: English	Course Number
9th	Journalism		0130
10th	Advanced Journalism: Yearbook I		0136
11th	Advanced Journalism: Yearbook II		0138
12th	Advanced Journalism: Yearbook III		0139

Endorsement : Business & Industry		Specialization: English	Course Number
9th	Debate I		0158
10th	Debate II		0160
11th	Debate III or Adv. Debate III		0161/0161H
12th	Adv. Independent Study Debate		0159

Endorsement : Business & Industry		Specialization: English	Course Number
9th	Public Speaking I		0151
10th	Public Speaking II		0152
11th	Public Speaking III or Adv. Public Speaking III		0153 / 153A
12th	Independent Study Public Speaking <u>or</u> Adv. Independent Study Public Speaking		164IS / 165ISH

Alief ISD 4 Year Endorsement Course Options

Public Services

Endorsement: Public Services		Specialization: Education & Training	Course Number
9th	Principles of Education and Training (1.0)		12115
10th	Human Growth & Development (1.0)		12116
11th	Instructional Practice in Education/Training (2.0)		12117
12th	Practicum in Education and Training		12118
	or Extended Practice in Education and Training		12119

Alief ISD 4 Year Endorsement Course Options

Public Services

Endorsement: Public Services		Specialization: Health Science Clinical Rotation	Course Number
9th	Medical Terminology (1.0)		12125
10th	Principles of Health Science (1.0)		12126
11th	Health Science Theory <u>with</u> Clinical Rotation (2.0)		12133
12th	Practicum in Health Science (2.0)		12135
	<u>or</u> Extended Practicum in Health Science (3.0)		12136

Endorsement: Public Services		Specialization: Health Science CNA	Course Number
9th	Medical Terminology (1.0)		12125
10th	Principles of Health Science (1.0)		12126
11th	Health Science Theory		12130
12th	Practicum in Health Science: Certified Nurse Aid (2.0)		12132

Endorsement: Public Services		Specialization: Health Science Health Science	Course Number
9th	Medical Terminology (1.0)		12125
10th	Principles of Health Science (1.0)		12126
11th	Health Science Theory		12130
	<u>or</u> Anatomy and Physiology (1.0)		12140
12th	Medical Microbiology (1.0)		12142
	<u>or</u> Pathophysiology (1.0)		12143
	<u>or</u> World Health Research (1.0)		12131

Endorsement: Public Services		Specialization: Health Science Pharmacy Technician	Course Number
9th	Medical Terminology (1.0)		12125
10th	Principles of Health Science (1.0)		12126
11th	Health Science Theory for Pharmacology		12127
	<u>and</u> Pharmacology (2.0 blocked)		12128
12th	Practicum in Health Science: Pharmacy Technician		12129

JROTC: Please check which branch of ROTC is available at your campus

Endorsement: Public Services		Specialization: JROTC	Course Number
9th	Air Force JROTC I/ Marine JROTC I, Navy JROTC I		5061/0555/0560

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10th	Air Force JROTC II/ Marine JROTC II, Navy JROTC II	5063/0556/0561
11th	Air Force JROTC III/ Marine JROTC III, Navy JROTC III	5065/0557/0562
12th	Air Force JROTC IV/ Marine JROTC IV, Navy JROTC IV	5067/0558/0563

STEM

Endorsement: STEM		Specialization: Engineering PLTW Aerospace Engineering	Course Number
9th	Introduction to Engineering Design (PLTW) (1.0)		12222
10th	Engineering Science (PLTW) (1.0)		12223
11th	Aerospace Engineering (PLTW) (1.0)		12226
12th	Practicum in STEM (2.0)		12229
	or Extended Practicum in STEM (3.0)		12230

Endorsement: STEM		Specialization: Engineering PLTW Civil Engineering	Course Number
9th	Introduction to Engineering Design (PLTW) (1.0)		12222
10th	Engineering Science PLTW (1.0)		12223
11th	Civil Engineering & Architecture (PLTW) (1.0)		12225
12th	Practicum in STEM (2.0)		12229
	or Extended Practicum in STEM (3.0)		12230

Endorsement: STEM		Specialization: Engineering Engineering Design & Presentation	Course Number
9th	Principles of Applied Engineering (1.0)		12214
10th	Engineering Design & Presentation I (1.0)		12216
11th	Engineering Design & Presentation II (2.0)		12219
12th	Practicum in STEM (2.0)		12229
	or Extended Practicum in STEM (3.0)		12230

Endorsement: STEM		Specialization: Engineering Robotics	Course Number
9th	Principles of Applied Engineering (1.0)		12214
10th	Engineering Design & Presentation I (1.0)		12216
11th	Robotics (1.0)		12220
12th	Robotics II (1.0)		12221
	or Practicum in STEM (2.0)		12229
	or Extended Practicum in STEM (3.0)		12230
	or Engineering Design & Problem Solving (1.0)		12233

Alief ISD 4 Year Endorsement Course Options

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STEM

Endorsement: STEM	Specialization: Computer Science	Course Number
9th	Fundamentals of Computer Science	0696
10th	Computer Science I	0694
11th	Computer Science II	0698
12th	Computer Science III	0680

Endorsement: STEM	Specialization: Computer Science	Course Number
9th	Computer Science I	0694
10th	Computer Science II	0698
11th	Computer Science III	0680
12th	AP Computer Science	0697

Math: A total of five credits in math including Algebra I, Geometry, Algebra II. The 2 additional math courses must be courses for which Algebra II is the prerequisite (Pre-Calculus, AP Calculus AB or BC, AP Statistics, Engineering Mathematics, Independent Study in Math, Statistics and Risk Management, AP Computer Science, Duel Credit Math, Advanced Quantitative Reasoning)

Sample Plans:

Endorsement: STEM	Specialization: Math	Course Number
8th	Algebra I	0206
9th	Geometry	0210
10th	Algebra II	0208

Alief ISD 4 Year Endorsement Course Options

11 th	Pre-Calculus	222A
12 th	AP Calculus AB	2011AB

Endorsement: STEM	Specialization: Math	Course Number
8 th	Algebra I	0206
9 th	Geometry	0210
10 th	Algebra II	0208
11 th	AP Statistics	222A
12 th	Advanced Quantitative Reasoning	2011AB

STEM

Science: A total of five credits in science including biology, chemistry and physics. The 2 additional course can include: AP Biology, AP Chemistry, AP Physics I, AP Physics I, AP Physics II, AP Physics C, AP Environmental Science, Aquatic Science, Astronomy, Earth & Space Science, Anatomy & Physiology, Environmental Science, Advanced Animal Science, Advanced Plant & Soil Science, Forensic Science, Medical Microbiology (.5), Pathophysiology (.5), Principles of Technology, Engineering Design & problem Solving, Principles of Engineering, Food Science

Sample Plans:

Endorsement: STEM	Specialization: Science	Course Number
9 th	Biology	0404
10 th	Chemistry	0408
11 th	Physics	0210
12 th	AP Chemistry	0410
1 additional credit	AP Physics I	APPHYSI

Endorsement: STEM	Specialization: Science	Course Number
9 th	Biology	0404
10 th	Chemistry	0408
11 th	Physics	0210
12 th	Anatomy and Physiology of Human Systems	0415
1 additional credit	Forensics	1269

Alief ISD 4 Year Endorsement Course Options

Multidisciplinary Studies

A Multidisciplinary Studies endorsement can be earned by completing the foundation program general endorsement requirements and either A, B or C:

- A) Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one or more endorsement areas that are not in a coherent sequence;
- B) Four *credits in each of the four foundation subject areas to include English IV and Chemistry and/or Physics
- C) Four *credits in advanced placement, International Baccalaureate, or dual credit selected from English, mathematics, science, social studies,

Sample Plans:

Endorsement : Multidisciplinary - A		Specialization: N/A	Course Number
9th	AP Human Geography		
10th	AP World History		
11th	AP US History		
12th	AP ECO & GOVT		

Endorsement : Multidisciplinary - B		Specialization: N/A	Course Number
9th	English I /Algebra I /Biology / W. Geography		
10th	English II / Geometry / Chemistry / W. History		
11th	English III / Algebra II/ Physics / US History		
12th	English IV / Pre-Calculus / Forensics / ECO & GOVT		

Endorsement : Multidisciplinary - C		Specialization: N/A	Course Number
9th	Elective of Student Choice		
10th	Elective of Student Choice		
11th	Dual Credit English III/ Dual Credit US History		
12th	Dual Credit English IV/Dual Credit ECO & GOVT		