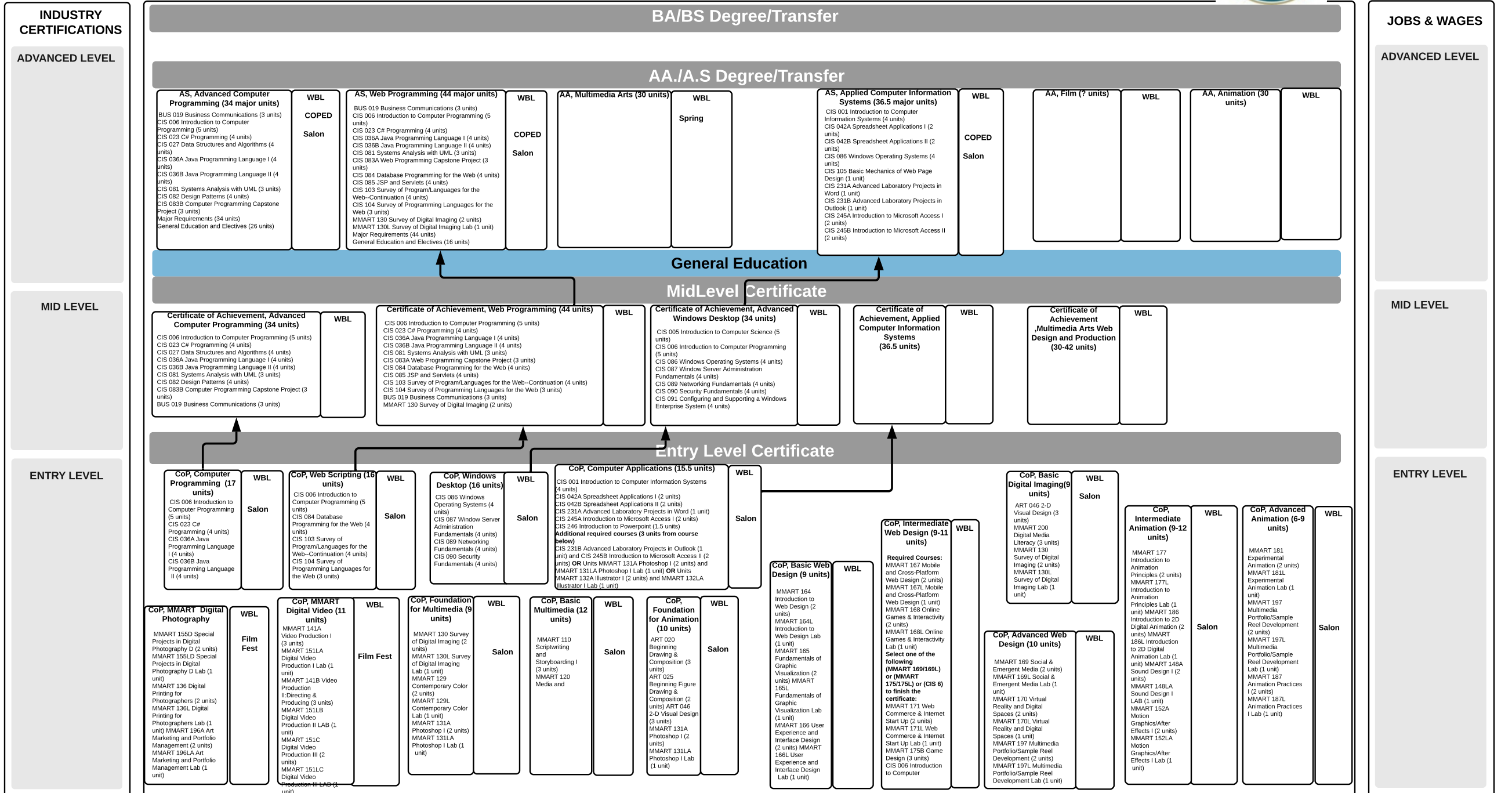# PATHWAYS MAPPING
CLP Career Ladders Project

Pathway(s): ICT/Digital Media Pathway
Community College(s): Berkeley City College
High School(s): Skyline High
Partner Organization(s): SAP

SKYLINE HIGH SCHOOL · BERKELEY CITY COLLEGE 1974 · SAP

INDUSTRY CERTIFICATIONS	BA/BS Degree/Transfer	JOBS & WAGES

ADVANCED LEVEL — AA./A.S Degree/Transfer

AS, Advanced Computer Programming (34 major units) — WBL: COPED, Salon
BUS 019 Business Communications (3 units)
CIS 006 Introduction to Computer Programming (5 units)
CIS 023 C# Programming (4 units)
CIS 027 Data Structures and Algorithms (4 units)
CIS 036A Java Programming Language I (4 units)
CIS 036B Java Programming Language II (4 units)
CIS 081 Systems Analysis with UML (3 units)
CIS 082 Design Patterns (4 units)
CIS 083B Computer Programming Capstone Project (3 units)
Major Requirements (34 units)
General Education and Electives (26 units)

AS, Web Programming (44 major units) — WBL: COPED, Salon
BUS 019 Business Communications (3 units)
CIS 006 Introduction to Computer Programming (5 units)
CIS 023 C# Programming (4 units)
CIS 036A Java Programming Language I (4 units)
CIS 036B Java Programming Language II (4 units)
CIS 081 Systems Analysis with UML (3 units)
CIS 083A Web Programming Capstone Project (3 units)
CIS 084 Database Programming for the Web (4 units)
CIS 085 JSP and Servlets (4 units)
CIS 103 Survey of Program/Languages for the Web--Continuation (4 units)
CIS 104 Survey of Programming Languages for the Web (3 units)
MMART 130 Survey of Digital Imaging (2 units)
MMART 130L Survey of Digital Imaging Lab (1 unit)
Major Requirements (44 units)
General Education and Electives (16 units)

AA, Multimedia Arts (30 units) — WBL: Spring

AS, Applied Computer Information Systems (36.5 major units) — WBL: COPED, Salon
CIS 001 Introduction to Computer Information Systems (4 units)
CIS 042A Spreadsheet Applications I (2 units)
CIS 042B Spreadsheet Applications II (2 units)
CIS 086 Windows Operating Systems (4 units)
CIS 105 Basic Mechanics of Web Page Design (1 unit)
CIS 231A Advanced Laboratory Projects in Word (1 unit)
CIS 231B Advanced Laboratory Projects in Outlook (1 unit)
CIS 245A Introduction to Microsoft Access I (2 units)
CIS 245B Introduction to Microsoft Access II (2 units)

AA, Film (? units) — WBL

AA, Animation (30 units) — WBL

General Education

MidLevel Certificate — MID LEVEL

Certificate of Achievement, Advanced Computer Programming (34 units) — WBL
CIS 006 Introduction to Computer Programming (5 units)
CIS 023 C# Programming (4 units)
CIS 027 Data Structures and Algorithms (4 units)
CIS 036A Java Programming Language I (4 units)
CIS 036B Java Programming Language II (4 units)
CIS 081 Systems Analysis with UML (3 units)
CIS 082 Design Patterns (4 units)
CIS 083B Computer Programming Capstone Project (3 units)
BUS 019 Business Communications (3 units)

Certificate of Achievement, Web Programming (44 units) — WBL
CIS 006 Introduction to Computer Programming (5 units)
CIS 023 C# Programming (4 units)
CIS 036A Java Programming Language I (4 units)
CIS 036B Java Programming Language II (4 units)
CIS 081 Systems Analysis with UML (3 units)
CIS 083A Web Programming Capstone Project (3 units)
CIS 084 Database Programming for the Web (4 units)
CIS 085 JSP and Servlets (4 units)
CIS 103 Survey of Program/Languages for the Web--Continuation (4 units)
CIS 104 Survey of Programming Languages for the Web (3 units)
BUS 019 Business Communications (3 units)
MMART 130 Survey of Digital Imaging (2 units)

Certificate of Achievement, Advanced Windows Desktop (34 units) — WBL
CIS 005 Introduction to Computer Science (5 units)
CIS 006 Introduction to Computer Programming (5 units)
CIS 086 Windows Operating Systems (4 units)
CIS 087 Window Server Administration Fundamentals (4 units)
CIS 089 Networking Fundamentals (4 units)
CIS 090 Security Fundamentals (4 units)
CIS 091 Configuring and Supporting a Windows Enterprise System (4 units)

Certificate of Achievement, Applied Computer Information Systems (36.5 units) — WBL

Certificate of Achievement, Multimedia Arts Web Design and Production (30-42 units) — WBL

Entry Level Certificate — ENTRY LEVEL

CoP, Computer Programming (17 units) — WBL: Salon
CIS 006 Introduction to Computer Programming (5 units)
CIS 023 C# Programming (4 units)
CIS 036A Java Programming Language I (4 units)
CIS 036B Java Programming Language II (4 units)

CoP, Web Scripting (16 units) — WBL: Salon
CIS 006 Introduction to Computer Programming (5 units)
CIS 084 Database Programming for the Web (4 units)
CIS 103 Survey of Program/Languages for the Web--Continuation (4 units)
CIS 104 Survey of Programming Languages for the Web (3 units)

CoP, Windows Desktop (16 units) — WBL: Salon
CIS 086 Windows Operating Systems (4 units)
CIS 087 Window Server Administration Fundamentals (4 units)
CIS 089 Networking Fundamentals (4 units)
CIS 090 Security Fundamentals (4 units)

CoP, Computer Applications (15.5 units) — WBL: Salon
CIS 001 Introduction to Computer Information Systems (4 units)
CIS 042A Spreadsheet Applications I (2 units)
CIS 042B Spreadsheet Applications II (2 units)
CIS 231A Advanced Laboratory Projects in Word (1 unit)
CIS 245A Introduction to Microsoft Access I (2 units)
CIS 246 Introduction to Powerpoint (1.5 units)
Additional required courses (3 units from course below)
CIS 231B Advanced Laboratory Projects in Outlook (1 unit) and CIS 245B Introduction to Microsoft Access II (2 units) **OR** Units MMART 131A Photoshop I (2 units) and MMART 131LA Photoshop I Lab (1 unit) **OR** Units MMART 132A Illustrator I (2 units) and MMART 132LA Illustrator I Lab (1 unit)

CoP, Basic Digital Imaging (9 units) — WBL: Salon
ART 046 2-D Visual Design (3 units)
MMART 200 Digital Media Literacy (3 units)
MMART 130 Survey of Digital Imaging (2 units)
MMART 130L Survey of Digital Imaging Lab (1 unit)

CoP, Intermediate Animation (9-12 units) — WBL: Salon
MMART 177 Introduction to Animation Principles (2 units)
MMART 177L Introduction to Animation Principles Lab (1 unit)
MMART 186 Introduction to 2D Digital Animation (2 units)
MMART 186L Introduction to 2D Digital Animation Lab (1 unit)
MMART 148A Sound Design I (2 units)
MMART 148L Sound Design I LAB (1 unit)
MMART 152A Motion Graphics/After Effects I (2 units)
MMART 152LA Motion Graphics/After Effects I Lab (1 unit)

CoP, Advanced Animation (6-9 units) — WBL: Salon
MMART 181 Experimental Animation (2 units)
MMART 181L Experimental Animation Lab (1 unit)
MMART 197 Multimedia Portfolio/Sample Reel Development (2 units)
MMART 197L Multimedia Portfolio/Sample Reel Development Lab (1 unit)
MMART 187 Animation Practices I (2 units)
MMART 187L Animation Practices I Lab (1 unit)

CoP, Intermediate Web Design (9-11 units) — WBL
Required Courses:
MMART 167 Mobile and Cross-Platform Web Design (2 units)
MMART 167L Mobile and Cross-Platform Web Design (1 unit)
MMART 168 Online Games & Interactivity (2 units)
MMART 168L Online Games & Interactivity Lab (1 unit)
Select one of the following (MMART 169/169L) or (MMART 175/175L) or (CIS 6) to finish the certificate:
MMART 171 Web Commerce & Internet Start Up (2 units)
MMART 171L Web Commerce & Internet Start Up Lab (1 unit)
MMART 175B Game Design (3 units)
CIS 006 Introduction to Computer

CoP, Advanced Web Design (10 units) — WBL
MMART 169 Social & Emergent Media (2 units)
MMART 169L Social & Emergent Media Lab (1 unit)
MMART 170 Virtual Reality and Digital Spaces (2 units)
MMART 170L Virtual Reality and Digital Spaces (1 unit)
MMART 197 Multimedia Portfolio/Sample Reel Development (2 units)
MMART 197L Multimedia Portfolio/Sample Reel Development Lab (1 unit)

CoP, Basic Web Design (9 units) — WBL
MMART 164 Introduction to Web Design (2 units)
MMART 164L Introduction to Web Design Lab (1 unit)
MMART 165 Fundamentals of Graphic Visualization (2 units) MMART 165L Fundamentals of Graphic Visualization Lab (1 unit)
MMART 166 User Experience and Interface Design (2 units) MMART 166L User Experience and Interface Design Lab (1 unit)

CoP, MMART Digital Photography — WBL: Film Fest
MMART 155D Special Projects in Digital Photography D (2 units)
MMART 155LD Special Projects in Digital Photography D Lab (1 unit)
MMART 136 Digital Printing for Photographers (2 units)
MMART 136L Digital Printing for Photographers Lab (1 unit)
MMART 196A Art Marketing and Portfolio Management (2 units)
MMART 196LA Art Marketing and Portfolio Management Lab (1 unit)

CoP, MMART Digital Video (11 units) — WBL: Film Fest
MMART 141A Video Production I (3 units)
MMART 151LA Digital Video Production I Lab (1 unit)
MMART 141B Video Production II:Directing & Producing (3 units)
MMART 151LB Digital Video Production II LAB (1 unit)
MMART 151C Digital Video Production III (2 units)
MMART 151LC Digital Video Production III LAB (1 unit)

CoP, Foundation for Multimedia (9 units) — WBL: Salon
MMART 130 Survey of Digital Imaging (2 units)
MMART 130L Survey of Digital Imaging Lab (1 unit)
MMART 129 Contemporary Color (2 units)
MMART 129L Contemporary Color Lab (1 unit)
MMART 131A Photoshop I (2 units)
MMART 131LA Photoshop I Lab (1 unit)

CoP, Basic Multimedia (12 units) — WBL: Salon
MMART 110 Scriptwriting and Storyboarding I (3 units)
MMART 120 Media and

CoP, Foundation for Animation (10 units) — WBL: Salon
ART 020 Beginning Drawing & Composition (3 units)
ART 025 Beginning Figure Drawing & Composition (2 units) ART 046 2-D Visual Design (3 units)
MMART 131A Photoshop I (2 units)
MMART 131LA Photoshop I Lab (1 unit)

PATHWAYS MAPPING
CLP | Career Ladders Project

Pathway(s): ICT/Digital Media Pathway
Community College(s): Berkeley City College
High School(s): Skyline High
Partner Organization(s): SAP

SKYLINE HIGH SCHOOL   BERKELEY CITY COLLEGE   SAP

Academic Courses	Contextualized Teaching and Education		Work Based Learning	Student Supports	Project Based Learning/Capstone	
12	*Arts, Media and Entertainment* - Advanced Digital Filmmaking (pending articulation to Berkeley City College)	*Information Communication Technologies* - AP Computer Science A (in Java - starting 2018-19)	-Summer Internship (articulates to Berkeley City College) **12**	**12**	**12**	**iCouldBe**
11	*Arts, Media and Entertainment* - The Art of Digital Filmmaking (articulates to Berkeley City College) html>	*Information Communication Technologies* - Web Design	-Summer Internship (articulates to Berkeley City College) **11**	**11**	**11** ECCO	**iCouldBe**
10	*Arts, Media and Entertainment* - Multimedia I (articulates to Berkeley City College)	*Information Communication Technologies* - AP Computer Science Principles	-Summer Internship (articulates to Berkeley City College) **10**	**10**	**10** ECCO	**iCouldBe**
9	*Arts, Media and Entertainment*	*Information Communication Technologies* - Exploring Computer Science (schoolwide)	**9**	**9**	**9** if, ECCO (college career visit)	**iCouldBe**

DRAFT 6/27/2017