# Program Overview

Computer and Information Systems Security/Information Assurance in 16 Counties

## Collin College

2200 West University Drive
McKinney, Texas 75070
972.377.1793

# Parameters

## Programs

| Code | Description |
|---|---|
| 11.1003 | Computer and Information Systems Security/Information Assurance |

## Regions

16 items selected. See Appendix A for details.

## Completions Year

2012

## Jobs Timeframe

2014 - 2020

## Datarun

2014.3 – QCEW Employees

# Program Summary for Computer and Information Systems Security/Information Assurance

| 9 | 108 | 2,393 |
|---|---|---|
| Regional Institutions | Regional Program Completions (2012) | Annual Openings (2012) |

## Regional Trends

| | Region | 2003 Completions | 2012 Completions | % Change |
|---|---|---|---|---|
| ● | Region | 0 | 108 | N/A |
| ■ | State | <10 | 371 | N/A |
| ▲ | Nation | 62 | 7,130 | 11,400.0% |

# Regional Completions by Award Level

| Award Level | Completions (2012) | Percent |
|---|---|---|
| Award of less than 1 academic year | 47 | 43.5% |
| Award of at least 1 but less than 2 academic years | 4 | 3.7% |
| Award of at least 2 but less than 4 academic years | 0 | 0.0% |
| Postbaccalaureate certificate | 0 | 0.0% |
| Post-masters certificate | 0 | 0.0% |
| Associates degree | 12 | 11.1% |
| Bachelors degree | 38 | 35.2% |
| Masters degree | 7 | 6.5% |
| Doctors degree | 0 | 0.0% |

| Institution | Certificates (2012) | Degrees (2012) | Total Completions (2012) |
|---|---|---|---|
| University of Dallas | 0 | 7 | 7 |
| El Centro College | 1 | 0 | 1 |
| ITT Technical Institute-Arlington | 0 | 14 | 14 |
| Richland College | 0 | 8 | 8 |
| Collin County Community College District | 3 | 4 | 7 |
| ITT Technical Institute-Richardson | 0 | 24 | 24 |
| Anthem College-Irving | 0 | 0 | 0 |
| University of Phoenix-Dallas Campus | 0 | 0 | 0 |
| CCI Training Center-Arlington | 47 | 0 | 47 |

## Similar Programs

| 13 | 1,767 | 2,393 |
|---|---|---|
| Programs (2012) | Completions (2012) | Openings (2012) |

| CIP Code | Program | Completions (2012) |
|---|---|---|
| 11.0101 | Computer and Information Sciences, General | 758 |
| 11.0901 | Computer Systems Networking and Telecommunications | 467 |
| 11.1003 | Computer and Information Systems Security/Information Assurance | 108 |
| 14.0901 | Computer Engineering, General | 99 |
| 11.0201 | Computer Programming/Programmer, General | 83 |

## Target Occupations

| 54,155 | +10.1% | $32.13/hr |
|---|---|---|
| Jobs (2014)<br>48% above National average | % Change (2014-2020)<br>Nation: +11.0% | Median Earnings<br>Nation: $31.26/hr |

| Occupation | Jobs (2014) | Regional Openings (2012) | Median Hourly Earnings | Growth (2014-2020) |
|---|---|---|---|---|
| Information Security Analysts | 2,903 | 163 | $40.74 | 20.3% |
| Web Developers | 3,034 | 113 | $33.62 | 13.1% |
| Database Administrators | 4,007 | 173 | $37.49 | 10.0% |
| Network and Computer Systems Administrators | 11,930 | 451 | $38.28 | 8.3% |
| Computer Network Architects | 4,932 | 220 | $46.90 | 8.5% |
| Computer User Support Specialists | 20,354 | 983 | $21.74 | 11.8% |
| Computer Network Support Specialists | 6,995 | 290 | $33.93 | 3.7% |

## Growth

| 54,155 | 59,627 | 5,472 | 10.1% |
|---|---|---|---|
| 2014 Jobs | 2020 Jobs | Change (2014-2020) | % Change (2014-2020) |

| Occupation | 2014 Jobs | 2020 Jobs | Change | % Change |
|---|---|---|---|---|
| Information Security Analysts (15-1122) | 2,903 | 3,493 | 590 | 20% |
| Web Developers (15-1134) | 3,034 | 3,432 | 398 | 13% |
| Database Administrators (15-1141) | 4,007 | 4,409 | 402 | 10% |
| Network and Computer Systems Administrators (15-1142) | 11,930 | 12,919 | 989 | 8% |
| Computer Network Architects (15-1143) | 4,932 | 5,353 | 421 | 9% |
| Computer User Support Specialists (15-1151) | 20,354 | 22,765 | 2,411 | 12% |
| Computer Network Support Specialists (15-1152) | 6,995 | 7,256 | 261 | 4% |

## Percentile Earnings

| $24.84/hr | $32.13/hr | $40.65/hr |
|---|---|---|
| 25th Percentile Earnings | Median Earnings | 75th Percentile Earnings |

| Occupation | 25th Percentile Earnings | Median Earnings | 75th Percentile Earnings |
|---|---|---|---|
| Information Security Analysts (15-1122) | $31.71 | $40.74 | $51.52 |
| Web Developers (15-1134) | $23.78 | $33.62 | $42.46 |
| Database Administrators (15-1141) | $27.10 | $37.49 | $47.52 |
| Network and Computer Systems Administrators (15-1142) | $30.41 | $38.28 | $48.04 |
| Computer Network Architects (15-1143) | $36.34 | $46.90 | $57.22 |
| Computer User Support Specialists (15-1151) | $16.39 | $21.74 | $29.13 |
| Computer Network Support Specialists (15-1152) | $27.92 | $33.93 | $40.38 |

# Appendix A - Regions

| Code | Description |
|---|---|
| 48085 | Collin County, TX |
| 48113 | Dallas County, TX |
| 48121 | Denton County, TX |
| 48139 | Ellis County, TX |
| 48143 | Erath County, TX |
| 48221 | Hood County, TX |
| 48231 | Hunt County, TX |
| 48251 | Johnson County, TX |
| 48257 | Kaufman County, TX |
| 48349 | Navarro County, TX |
| 48363 | Palo Pinto County, TX |
| 48367 | Parker County, TX |
| 48397 | Rockwall County, TX |
| 48425 | Somervell County, TX |
| 48439 | Tarrant County, TX |
| 48497 | Wise County, TX |

# Appendix B - Data Sources and Calculations

## Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

## Completers Data

The completers data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

## Occupation Data

EMSI occupation employment data are based on final EMSI industry data and final EMSI staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level EMSI earnings by industry.

## State Data Sources

This report uses state data from the following agencies: Texas Workforce Commission