Information Technology Management
CSU East Bay Welcome Day, April 18, 2020
Agenda

• ITM Program
• ITM Careers
• ITM Faculty
• ITM Activities
• Graduate Programs
ITM Program

• Required Courses
  – BUS 220 - Legal Environment of Business
  – BUS 320 - Business and Professional Ethics
  – BUS 340 - Information Technology Management
  – BUS 370 - Business, Government and Society
  – ITM 330 - Business Applications Programming
  – ITM 331 - Database Management Systems
ITM Electives

- ITM 332 - Business Data Communications
- ITM 336 - Information Systems Development and Management
- ITM 338 - E-Business Technology and Management
- ITM 440 - Business Intelligence Systems
- ITM 442 - Healthcare Information Systems
- ITM 446 - Information Security
- ITM 448 - Information Systems Analytics
- ITM 449 - Advanced Topics in Information Technology
ITM Careers

• Business Analyst
• Systems Analyst and Administrator
• Information Security and Networking
• IT Service and Application Support
• Help Desk Engineer
• Database Developer
• Data Analyst
• BI Analyst
## Job Outlook

*Employment Development Department*

*Labor Market Information Division*

*Published: May 2019*

### 2016-2026 Occupational Employment Projections

*Oakland-Hayward-Berkeley Metropolitan Division*  
*(Alameda and Contra Costa Counties)*

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<tbody>
<tr>
<td>4</td>
<td>11-3021</td>
<td>Computer and Information Systems Managers</td>
<td>3,810</td>
<td>4,560</td>
<td>750</td>
<td>19.7%</td>
<td>74</td>
<td>228</td>
<td>76</td>
<td>378</td>
<td>Bachelor's degree</td>
<td>≥5 years</td>
<td>None</td>
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<tr>
<td>4</td>
<td>13-1111</td>
<td>Management Analysts</td>
<td>8,290</td>
<td>9,490</td>
<td>1,200</td>
<td>14.5%</td>
<td>286</td>
<td>459</td>
<td>120</td>
<td>865</td>
<td>Bachelor's degree</td>
<td>&lt;5 years</td>
<td>None</td>
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<tr>
<td>4</td>
<td>15-1121</td>
<td>Computer Systems Analysts</td>
<td>6,690</td>
<td>7,850</td>
<td>1,160</td>
<td>17.3%</td>
<td>133</td>
<td>325</td>
<td>116</td>
<td>574</td>
<td>Bachelor's degree</td>
<td>_none</td>
<td>None</td>
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<tr>
<td>4</td>
<td>15-1122</td>
<td>Information Security Analysts</td>
<td>550</td>
<td>740</td>
<td>190</td>
<td>34.5%</td>
<td>12</td>
<td>31</td>
<td>19</td>
<td>62</td>
<td>Bachelor's degree</td>
<td>&lt;5 years</td>
<td>None</td>
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<tr>
<td>4</td>
<td>15-1132</td>
<td>Software Developers, Applications</td>
<td>9,620</td>
<td>13,940</td>
<td>4,320</td>
<td>44.9%</td>
<td>161</td>
<td>578</td>
<td>431</td>
<td>1,170</td>
<td>Bachelor's degree</td>
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<td>None</td>
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<tr>
<td>4</td>
<td>15-1134</td>
<td>Web Developers</td>
<td>1,870</td>
<td>2,320</td>
<td>450</td>
<td>24.1%</td>
<td>39</td>
<td>106</td>
<td>45</td>
<td>190</td>
<td>Associate's degree</td>
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<td>None</td>
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<tr>
<td>4</td>
<td>15-1141</td>
<td>Database Administrators</td>
<td>980</td>
<td>1,040</td>
<td>60</td>
<td>6.1%</td>
<td>21</td>
<td>42</td>
<td>7</td>
<td>70</td>
<td>Bachelor's degree</td>
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<td>None</td>
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<td>4</td>
<td>15-1142</td>
<td>Network and Computer Systems Administrators</td>
<td>3,700</td>
<td>4,150</td>
<td>450</td>
<td>12.2%</td>
<td>55</td>
<td>184</td>
<td>45</td>
<td>284</td>
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<td>4</td>
<td>15-1151</td>
<td>Computer User Support Specialists</td>
<td>4,760</td>
<td>5,490</td>
<td>730</td>
<td>15.3%</td>
<td>104</td>
<td>264</td>
<td>73</td>
<td>441</td>
<td>Some college, no degree</td>
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<tr>
<td>4</td>
<td>15-1152</td>
<td>Computer Network Support Specialists</td>
<td>1,700</td>
<td>1,920</td>
<td>220</td>
<td>12.9%</td>
<td>37</td>
<td>93</td>
<td>22</td>
<td>152</td>
<td>Associate's degree</td>
<td>None</td>
<td>None</td>
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</table>

*Source: [https://www.labormarketinfo.edd.ca.gov/data/employment-projections.html](https://www.labormarketinfo.edd.ca.gov/data/employment-projections.html)*
ITM Faculty

Hongwei Du, Ph.D.    Yuanyuan Gao, Ph.D.    Ken Pefkaros, Ph.D.    Jyotishka Ray, Ph.D.

Surendra Sarnikar, Ph.D.    Jiming Wu, Ph.D.    Peng Xie, Ph.D.
ITM Activities

• Clubs
  – Information Systems Club
  – Analytics Club
  – Beta Alpha Psi

• Scholarships and Networking Activities
  – CIO Scholarship Fund – Sponsored by Bay Area CIO’s
  – Workday College Link Program
Graduate Programs

• Master of Science in Business Analytics
  – Focus on in-depth knowledge and specialized skills in Python/R, database, data warehousing, data mining, text mining and web analytics, big data analytics and optimized decision making.
  – One Year or Two Year Plans
  – 30 Credits
  – 18 Units Required Courses
  – 9 Units Electives
  – 3 Units Capstone