Statewide Default Placement Guidelines



Observations about these data:

Questions:

What data should colleges plan to evaluate?

Predicted probabilities of achieving each of three quantitative competency outcomes for six subsamples of developmental math students, based on estimates derived from logistic regression analyses (not shown)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Predicted Probability |
| Subsample | **Transfer****Seeking** | **First Math** | **Outcome in 1st Attempt of 1st Math** | **Second Math** | **Achieving Associate-Level or Transfer-Level Competency** | **Achieving Transfer-Level Competency** | **Completing STEM-Track Math Course** |
|  |  |  |  |  |  |  |  |
| 1 | Yes |  | Any | Any or None | 0.32 | 0.09 | 0.03 |
|  |  | Intermediate Algebra for Stats | Any | Any or None | 0.34 | 0.24 | 0.02 |
|  |  | Comp/Accel Alg + Int. Alg | Any | Any or None | 0.63 | 0.27 | 0.17 |
|  |  | Intermediate Algebra | Any | Any or None | 0.59 | 0.20 | 0.11 |
|  |  |  |  | **N** | **1,985** | **1,985** | **1,985** |
|  |  |  |  |  |  |  |  |
| 2 | Yes | Algebra | Successful  | Any or None | 0.59 | 0.19 | 0.07 |
|  |  | Intermediate Algebra for Stats | Successful  | Any or None | 0.51 | 0.38 | 0.04 |
|  |  | Comp/Accel Alg + Int. Alg | Successful  | Any or None | 0.70 | 0.37 | 0.24 |
|  |  | Intermediate Algebra | Successful  | Any or None | H | 0.44 | 0.23 |
|  |  |  |  | **N** | **694** | **1,098** | **1,098** |
|  |  |  |  |  |  |  |  |
| 3 | Yes | Algebra | Successful  | Intermediate Algebra | 0.61 | 0.20 | 0.06 |
|  |  | Intermediate Algebra for Stats | Successful  | Math B22 | 0.67 | 0.53 | L |
|  |  | Intermediate Algebra for Stats | Successful  | Psyc B5 | H | 0.88 | L |
|  |  | Comp/Accel Alg + Int. Alg | Successful  | LRNC B530 (Intermediate Algebra) | 0.63 | 0.37 | 0.19 |
|  |  | Intermediate Algebra | Successful  | Math B1A | H | 0.65 | 0.61 |
|  |  | Intermediate Algebra | Successful  | Math B22 | H | 0.69 | 0.06 |
|  |  | Intermediate Algebra | Successful  | Psyc B5 | H | 0.89 | 0.02 |
|  |  |  |  | **N** | **545** | **840** | **804** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Subsample | TransferSeeking | First Math | Outcome in 1st Attempt of 1st Math | Second Math | Achieving Associate-Level or Transfer-Level Competency | Achieving Transfer-Level Quantitative Competency | Completing STEM-Track Math Course |
|  |  |  |  |  |  |  |  |
| 4 | No | Algebra | Any | Any or None | 0.38 | 0.08 | 0.05 |
|  |  | Interm. Algebra for Stats | Any | Any or None | 0.08 | 0.11 | L |
|  |  | Comp/Accel Alg + Int. Alg | Any | Any or None | 0.58 | 0.42 | 0.13 |
|  |  | Interm. Algebra  | Any | Any or None | 0.66 | 0.26 | 0.26 |
|  |  |  |  | **N** | **602** | **578** | **553** |
|  |  |  |  |  |  |  |  |
| 5 | No | Algebra | Successful  | Any or None | 0.68 | 0.18 | 0.13 |
|  |  | Interm. Algebra for Stats | Successful  | Any or None | 0.19 | 0.23 | L |
|  |  | Comp/Accel Alg + Int. Alg | Successful  | Any or None | 0.82 | 0.63 | 0.20 |
|  |  | Interm. Algebra  | Successful  | Any or None | H | 0.56 | 0.49 |
|  |  |  |  | **N** | **219** | **294** | **282** |
|  |  |  |  |  |  |  |  |
| 6 | No | Algebra | Successful  | Interm. Algebra  | 0.84 | 0.15 | 0.14 |
|  |  | Interm. Algebra for Stats | Successful  | Math B22 | L | L | L |
|  |  | Interm. Algebra for Stats | Successful  | Psyc B5 | H | H | L |
|  |  | Comp/Accel Alg + Int. Alg | Successful  | LRNC B530 (Interm. Algebra ) | 0.88 | 0.61 | 0.13 |
|  |  | Interm. Algebra  | Successful  | Math B1A | H | 0.81 | 0.89 |
|  |  | Interm. Algebra  | Successful  | Math B22 | H | 0.58 | 0.19 |
|  |  | Interm. Algebra  | Successful  | Psyc B5 | H | H | L |
|  |  |  |  | **N** | **162** | **202** | **202** |

Selected outcomes by first math course attempted

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  | % demonstrated associate-level quantitative competency |  |  |
|  | *N* | % completing quantitative competency | by completing a qualifying non-math course | by completing a qualifying math course | % demonstrated transfer-level competency | Total |
| Accelerated Arithmetic + Pre-algebra | 1,070 | 15% | 4% | 8% | 3% | 100% |
| Algebra | 1,435 | 40% | 5% | 23% | 13% | 100% |
| Algebra for Statistics | 146 | 31% | 8% | 1%\*\* | 22% | 100% |
| Compressed Accelerated Algebra + Intermediate Algebra | 68 | 69% | 6% | 25% | 38% | 100% |
| Intermediate Algebra | 938 | 68% | 4% | 34% | 30% | 100% |

Distribution of second math course attempted by first math course attempted and outcome in first attempt of first math course, either successful or unsuccessful (transfer-seeking students only)

|  |  |  |
| --- | --- | --- |
|  |  | Second Math |
| Successful in 1st Attempt of 1st Math | *N* | No 2nd Math | Repeat | Algebra | Inter.Algebra | Accel/CompAlg + Int Alg | Pre-Calc | Math Stats | Behavioral Science Stats | Other | Total |
| Accelerated Arithmetic + Pre-algebra | 376 | 32% | ----- | 53% | ----- | ----- | ----- | ----- | ----- | 15% | 100% |
| Algebra | 576 | 14% | ----- | ----- | 84% | ----- | ----- | ----- | ----- | 2% | 100% |
| Algebra for Statistics | 74 | 43% | ----- | ----- | ----- | ----- | ----- | 26% | 23% | 8% | 100% |
| Comp/ Accel Algebra + Intermediate Algebra | 44 | ----- | ----- | ----- | ----- | 98% | ----- | ----- | ----- | 2% | 100% |
| Intermediate Algebra | 404 | 28% | ----- | ----- | ----- | ----- | 31% | 28% | 10% | 3% | 100% |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Unsuccessful in 1st Attempt of 1st Math | *N* | No 2nd Math | Repeat | Algebra | Inter.Algebra | Accel/CompAlg + Int Alg | Pre-Calc | Math Stats | Behavioral Science Stats | Other | Total |
| Accelerated Arithmetic + Pre-algebra | 241 | 74% | 23% | ----- | ----- | ----- | ----- | ----- | ----- | 3% | 100% |
| Algebra | 475 | 63% | 27% | ----- | ----- | ----- | ----- | ----- | ----- | 11% | 100% |
| Algebra for Statistics | 45 | 71% | ----- | ----- | ----- | ----- | ----- | ----- | ----- | 29% | 100% |
| Comp/ Accel Algebra + Intermediate Algebra | 6 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | 100% | 100% |
| Intermediate Algebra | 361 | 50% | 42% | ----- | ----- | ----- | ----- | ----- | ----- | 8% | 100% |