Maximum Goal Differential = 7

RANK TEAM W L T GmPerf Sched Total Last 5

 1,Liberty University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 11 0 0, 4.0, 9.1, 13.05, 13.24

 2,Adrian College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12 4 0, 2.5, 8.0, 10.55, 9.73

 3,Minot State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 3 0, 2.6, 7.3, 9.87, 9.92

 4,Lindenwood University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12 4 0, 0.5, 8.9, 9.40, 9.95

 5,McKendree University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 3 0, 1.4, 8.0, 9.39, 9.23

 6,Midland University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 6 1, 1.6, 7.7, 9.28, 8.65

 7,Indiana Tech,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 4 1, 2.3, 6.8, 9.18, 9.41

 8,University of Massachusetts-Amherst,\_\_\_\_\_\_ 7 3 0, 1.8, 7.3, 9.07, 9.58

 9,Maryville University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 8 1, 1.3, 7.6, 8.88, 10.37

 10,Arizona State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 5 0, 1.5, 6.2, 7.76, 7.07

 11,Miami University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6 8 0, 0.2, 7.5, 7.71, 6.66

 12,Michigan State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 1 0, 2.4, 4.9, 7.30, 7.03

 13,University of Michigan-Dearborn,\_\_\_\_\_\_\_\_\_\_ 4 3 2, 0.3, 6.7, 7.07, 7.90

 14,University of Michigan,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 6 1, -0.5, 7.2, 6.65, 7.11

 15,Grand Valley State University,\_\_\_\_\_\_\_\_\_\_\_\_ 5 4 1, 0.8, 5.5, 6.33, 6.39

 16,Grand Canyon University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 7 3, -0.2, 6.3, 6.09, 6.21

 17,University of Colorado,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 7 2, 0.1, 5.8, 5.91, 4.95

 18,University of Rhode Island,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 7 0, -1.4, 6.9, 5.54, 6.12

 19,Aquinas College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 8 1, -1.1, 6.3, 5.25, 4.97

 20,University of Minnesota,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -4.8, 9.7, 4.84, 5.23

 21,University of Utah,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 6 0, -0.3, 5.2, 4.83, 4.51

 22,Colorado State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 7 0, -1.7, 5.3, 3.60, 3.83

 23,Davenport University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 6 1, -3.0, 6.6, 3.57, 3.68

 24,Concordia University-Ann Arbor,\_\_\_\_\_\_\_\_\_\_\_ 2 11 0, -3.5, 7.0, 3.52, 2.84

 25,Penn State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -5.0, 8.5, 3.51, 3.18

 26,Roosevelt University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -7.0, 9.1, 2.14, 2.43

 27,University of Denver,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 6 0, -4.4, 3.8, -0.60, -0.33

 28,United States Air Force Academy,\_\_\_\_\_\_\_\_\_\_ 0 6 0, -7.0, 5.1, -1.92, -2.08

**Maximum Goal Differential = 1**

**(i.e. just considers W, L, T and schedule strength)**

**RANK TEAM W L T GmPerf Sched Total Last 5**

**\ 1,Liberty University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 11 0 0, 1.0, 7.5, 8.51, 8.44**

 **2,Lindenwood University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12 4 0, 0.5, 7.4, 7.89, 7.98**

 **3,Adrian College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12 4 0, 0.5, 7.3, 7.79, 7.63**

 **4,McKendree University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 3 0, 0.4, 7.2, 7.57, 7.41**

 **5,Minot State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 3 0, 0.5, 6.9, 7.49, 7.57**

 **6,University of Massachusetts-Amherst,\_\_\_\_\_\_ 7 3 0, 0.4, 7.0, 7.45, 7.55**

 **7,Indiana Tech,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 4 1, 0.4, 7.0, 7.40, 7.27**

 **8,Michigan State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 1 0, 0.8, 6.6, 7.34, 7.08**

 **9,Midland University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 6 1, 0.2, 7.1, 7.29, 7.25**

 **10,Maryville University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 8 1, 0.1, 7.2, 7.27, 7.72**

 **11,Arizona State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 5 0, 0.3, 6.9, 7.25, 7.41**

 **12,University of Michigan-Dearborn,\_\_\_\_\_\_\_\_\_\_ 4 3 2, 0.1, 7.0, 7.07, 7.34**

 **13,Miami University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6 8 0, -0.1, 7.2, 7.04, 6.77**

 **14,University of Michigan,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 6 1, -0.2, 7.1, 6.90, 6.96**

 **15,Grand Valley State University,\_\_\_\_\_\_\_\_\_\_\_\_ 5 4 1, 0.1, 6.7, 6.79, 6.90**

 **16,Grand Canyon University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 7 3, -0.1, 6.8, 6.71, 6.65**

 **17,University of Colorado,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 7 2, -0.1, 6.7, 6.56, 6.36**

 **18,University of Rhode Island,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 7 0, -0.4, 6.9, 6.55, 6.71**

 **19,Aquinas College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 8 1, -0.3, 6.8, 6.51, 6.36**

 **20,University of Minnesota,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -1.0, 7.4, 6.42, 6.41**

 **21,Roosevelt University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -1.0, 7.4, 6.41, 6.48**

 **22,Penn State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -1.0, 7.4, 6.40, 6.39**

 **23,Concordia University-Ann Arbor,\_\_\_\_\_\_\_\_\_\_\_ 2 11 0, -0.7, 7.0, 6.32, 6.35**

 **24,Colorado State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 7 0, -0.4, 6.7, 6.27, 6.11**

 **25,University of Utah,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 6 0, -0.3, 6.6, 6.23, 6.02**

 **26,Davenport University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 6 1, -0.6, 6.8, 6.19, 6.07**

 **27,United States Air Force Academy,\_\_\_\_\_\_\_\_\_\_ 0 6 0, -1.0, 6.6, 5.60, 5.60**

 **28,University of Denver,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 6 0, -0.7, 6.2, 5.53, 5.64**

 **- \* in place of rank indicates team whose rank is based on fewer than 3 scores.**

 **The program starts all teams with an equal arbitrary value and then**

**adjusts them all recursively based on game scores until the lowest cumulative**

**error between expected goal differentials and actual goal differentials is**

**reached (convergence). One effect often noticed is that a team's rating can**

**change slightly without playing due to previous opponents playing which affects**

**their rating and their opponent's rating, etc.**

 **The Total column is in goal units and the difference in this value between**

**any two teams is the predicted goal differential for a game played at a**

**neutral site between those two teams.**

 **It should be noted that these rankings are an average performance value**

**for each team for the entire season, all games are equally weighted, so a team's**

**latest game may make up only 1/40th of a teams rating at the end of the season.**

 **Games that go to shootouts for decision are considered ties for ratings purposes.**

 **Actually, there are two different rankings listed below. The first is as described**

**above with the maximum goal differential used per game set at 7.**

 **This ordering ends up similar to** [**CCHP**](https://www.google.com/url?q=http://www.uafhockey.com/hratings.html&source=gmail-html&ust=1641008138660000&usg=AOvVaw3J3hBuOZ1ansBrKgC6MUnr)**, although differences do arise due to CCHP**

**considering home ice advantage and CCHP not using a goal differential limit.**

 **The second ranking sets maximum goal differential at 1, thereby just considering**

**whether the game was won, lost, or tied (and strength of opponent). Note that the Total column**

**in the GD=1 ranking is therefore in win percentage units rather than goal units. A rated .01**

**ahead of B can be interpreted as saying that if these two teams played exclusively against**

**each other, A's predicted winning percentage is 1 percentage point higher than B's**

**(i.e. A's predicted winning percentage vs. B would be .495, B's against**

**A would be .505). However, since the teams do not play exclusively against the other it**

**is actually a little bit more complex than above as teams can be ranked as high as 1.0**

**above their average opponent (if they were undefeated and untied) and as low as 1.0**

**below their average opponent (if they lost all of their games).**

**Not surprisingly, the ordering ends up very similar to** [**KRACH**](https://www.google.com/url?q=http://rpihockey.net/misc.rank1.shtml&source=gmail-html&ust=1641008138661000&usg=AOvVaw35ZRCtbYOlH3j-g6BObYC1)**.**

 **Currently, teams with as few as 3 scores are ranked. The more games that go**

**into a team's ranking, the more accurate their ranking will be.**